

# Hyncdz<sup>®</sup>

## 承 认 书

APPROVING SHEET

CUSTOMER

客 户: \_\_\_\_\_

PART NAME : Chip-Aluminum Electrolytic Capacitor

品 名: 片式铝电解电容器

SERIES: \_\_\_\_\_

系 列: VT

SPECIFICATION: \_\_\_\_\_

规格: HY2A100MC063077ME0

DATE \_\_\_\_\_

日 期: \_\_\_\_\_

| 制 造              |                 | 客 户          |                 |
|------------------|-----------------|--------------|-----------------|
| MANUFACTURE      |                 | CUSTOMER     |                 |
| 拟 制<br>FORMULATE | 批 准<br>APPROVAL | 检 验<br>CHECK | 批 准<br>APPROVAL |
| 黄烈群              | 涂斯昌             |              |                 |

产品规格书 Product Specification

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一、概述 SCOPE

本产品规格书适用于 Shenzhen Hync Electronic Co., Ltd. VT 型片式铝电解电容器产品。

The product specification is adapted to series VT V-CHIP Aluminum Electrolytic Capacitors of Shenzhen Hync Electronic Co., Ltd.

二、外形图及尺寸表 Case size table



单位:mm

| ITEM | 4 ×<br>5.4 | 5 ×<br>5.4 | 6.3 ×<br>5.4 | 6.3 ×<br>7.7 | 6.3 ×<br>10.5 | 8 ×<br>10.5 | 8 ×<br>12.5 | 10 ×<br>10.5 | 10 ×<br>12.5 | 12.5 ×<br>13.5 | 12.5 ×<br>16.5 | 16 ×<br>16.5 | 18 ×<br>16.5 | 18 × 21.5 |  |
|------|------------|------------|--------------|--------------|---------------|-------------|-------------|--------------|--------------|----------------|----------------|--------------|--------------|-----------|--|
| A    | 1.8        | 2.1        | 2.4          | 2.4          | 2.4           | 2.9         | 2.9         | 3.2          | 3.2          | 4.8            | 4.8            | 5.8          | 6.8          | 6.8       |  |
| B    | 4.3        | 5.3        | 6.6          | 6.6          | 6.6           | 8.3         | 8.3         | 10.3         | 10.3         | 13             | 13             | 17           | 19           | 19        |  |
| C    | 4.3        | 5.3        | 6.6          | 6.6          | 6.6           | 8.3         | 8.3         | 10.3         | 10.3         | 13             | 13             | 17           | 19           | 19        |  |
| E    | 1.0        | 1.3        | 2.2          | 2.2          | 2.2           | 3.1         | 3.1         | 4.5          | 4.5          | 4.4            | 4.4            | 6.4          | 6.4          | 6.4       |  |
| L    | 5.4        | 5.4        | 5.4          | 7.7          | 10.5          | 10.5        | 12.5        | 10.5         | 12.5         | 13.5           | 16.5           | 16.5         | 16.5         | 21.5      |  |
| H    | 0.5~0.8    |            |              |              |               | 0.8 ~ 1.1   |             |              |              |                | 1.1~1.4        |              |              |           |  |

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三、 技术性能 Specifications

| 项目 Items  | 特性 Characteristics  |      |      |      |      |      |      |      |      |      |      |
|---|---|------|------|------|------|------|------|------|------|------|------|
| 工作温度范围<br>Operating Temperature Range                   | -40°C ~ 105°C   |      |      |      |      |      |      |      |      |      |      |
| 额定电压范围<br>Rated Voltage Range                           | 4V ~ 100V   |      |      |      |      |      |      |      |      |      |      |
| 标称容量范围<br>Nominal Capacitance Range                     | 0.1 ~ 8200 μF   |      |      |      |      |      |      |      |      |      |      |
| 标称容量允许偏差<br>Nominal Capacitance Tolerance               | ±20% (20°C, 120HZ)  |      |      |      |      |      |      |      |      |      |      |
| 漏电流<br>Leakage Current                                  | $I \leq 0.01C_R V_R$ or $3(\mu A)$ , 取较大者 (施加额定电压 2 分钟) $C_R$ : 标称容量 ( $\mu F$ )<br>$U_R$ : 额定电压 (V)<br>$I \leq 0.01C_R V_R$ or $3(\mu A)$ whichever is greater (After 2 minutes' application of rated voltage)<br>$C_R$ : Nominal Capacitance ( $\mu F$ ) $U_R$ : Rated voltages (V) |      |      |      |      |      |      |      |      |      |      |
| 损耗角正切 (tg δ)<br>Dissipation Factor (Max)<br>20°C, 120HZ | $U_R$ (V)   | 4    | 6.3  | 10   | 16   | 25   | 35   | 50   | 63   | 80   | 100  |
|   | tg δ  | 0.35 | 0.28 | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.12 | 0.12 | 0.12 |
|   | 容量大于 1000uF 者, 每增加 1000uF, 其损耗角正切值增加 0.02<br>When nominal capacitance exceeds 1000uF, add 0.02 to the value above for each 1000uF increase  |      |      |      |      |      |      |      |      |      |      |

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四、称电容量、额定电压、额定纹波电流与外形尺寸对应表

Nominal capacitance, rated voltage, rated ripple current and case size table

| V<br>μF | 4         |                      | 6.3       |                      | 10        |                      | 16        |                      | 25        |                      | 35        |                      | 50        |                      |    |
|---------|-----------|----------------------|-----------|----------------------|-----------|----------------------|-----------|----------------------|-----------|----------------------|-----------|----------------------|-----------|----------------------|----|
|         | D×L<br>mm | I <sup>~</sup><br>mA | D×L<br>mm | I <sup>~</sup><br>mA | D×L<br>mm | I <sup>~</sup><br>mA | D×L<br>mm | I <sup>~</sup><br>mA | D×L<br>mm | I <sup>~</sup><br>mA | D×L<br>mm | I <sup>~</sup><br>mA | D×L<br>mm | I <sup>~</sup><br>mA |    |
| 0.1     |           |                      |           |                      |           |                      |           |                      |           |                      |           |                      | 4×5.4     | 2.3                  |    |
| 0.22    |           |                      |           |                      |           |                      |           |                      |           |                      |           |                      | 4×5.4     | 3.4                  |    |
| 0.33    |           |                      |           |                      |           |                      |           |                      |           |                      |           |                      | 4×5.4     | 4.1                  |    |
| 0.47    |           |                      |           |                      |           |                      |           |                      |           |                      |           |                      | 4×5.4     | 5                    |    |
| 1.0     |           |                      |           |                      |           |                      |           |                      |           |                      |           |                      | 4×5.4     | 10                   |    |
| 2.2     |           |                      |           |                      |           |                      |           |                      |           |                      |           |                      | 4×5.4     | 16                   |    |
| 3.3     |           |                      |           |                      |           |                      |           |                      |           |                      | 4×5.4     | 13                   | 4×5.4     | 16                   |    |
| 4.7     |           |                      |           |                      |           |                      |           |                      |           | 4×5.4                | 22        | 4×5.4                | 22        | 4×5.4                | 16 |
|         |           |                      |           |                      |           |                      |           |                      |           |                      |           |                      | 5×5.4     | 23                   |    |
| 10      |           |                      |           |                      |           |                      | 4×5.4     | 28                   |           | 4×5.4                | 22        | 4×5.4                | 22        | 5×5.4                | 25 |
|         |           |                      |           |                      |           |                      |           |                      |           | 5×5.4                | 28        | 5×5.4                | 30        | 6.3×5.4              | 32 |
| 22      |           |                      | 4×5.4     | 29                   | 4×5.4     | 28                   | 4×5.4     | 28                   | 5×5.4     | 32                   | 5×5.4     | 45                   | 6.3×5.4   | 35                   |    |
|         |           |                      |           |                      | 5×5.4     | 30                   | 5×5.4     | 39                   | 6.3×5.4   | 55                   | 6.3×5.4   | 60                   | 6.3×7.7   | 51                   |    |
| 33      | 4×5.4     | 31                   | 4×5.4     | 30                   | 4×5.4     | 29                   |           |                      | 5×5.4     | 35                   |           |                      |           |                      |    |
|         |           |                      | 5×5.4     | 34                   | 5×5.4     | 34                   | 5×5.4     | 35                   |           | 6.3×5.4              | 65        | 6.3×5.4              | 60        | 6.3×7.7              | 70 |
| 47      | 4×5.4     | 31                   | 4×5.4     | 32                   | 4×5.4     | 30                   | 5×5.4     | 45                   | 5×5.4     | 35                   | 6.3×5.4   | 65                   |           |                      |    |
|         |           |                      | 5×5.4     | 46                   | 5×5.4     | 45                   | 6.3×5.4   | 70                   | 6.3×5.4   | 70                   | 6.3×7.7   | 80                   | 6.3×7.7   | 80                   |    |
| 68      | 4×5.4     | 35                   | 5×5.4     | 46                   | 5×5.4     | 46                   | 6.3×5.4   | 70                   | 6.3×5.4   | 70                   | 6.3×7.7   | 80                   | 6.3×7.7   | 80                   |    |
| 100     | 5×5.4     | 55                   | 5×5.4     | 52                   | 5×5.4     | 50                   | 5×5.4     | 70                   | 6.3×5.4   | 70                   | 6.3×7.7   | 90                   |           |                      |    |
|         |           |                      | 6.3×5.4   | 71                   | 6.3×5.4   | 69                   | 6.3×5.4   | 70                   | 6.3×7.7   | 100                  | 8×10.5    | 296                  | 8×10.5    | 230                  |    |
| 150     | 6.3×5.4   | 95                   | 6.3×5.4   | 90                   | 6.3×5.4   | 70                   | 6.3×7.7   | 120                  | 8×10.5    | 280                  | 8×10.5    | 300                  | 10×10.5   | 300                  |    |
| 220     | 6.3×5.4   | 100                  | 6.3×5.4   | 95                   | 6.3×5.4   | 95                   | 6.3×5.4   | 120                  | 6.3×7.7   | 120                  | 8×10.5    | 320                  |           |                      |    |
|         |           |                      | 6.3×7.7   | 120                  | 6.3×7.7   | 120                  | 6.3×7.7   | 120                  | 8×10.5    | 320                  | 10×10.5   | 435                  | 10×10.5   | 375                  |    |
| 330     | 6.3×7.7   | 140                  | 6.3×7.7   | 130                  | 6.3×7.7   | 130                  |           |                      | 8×10.5    | 320                  |           |                      | 10×10.5   | 400                  |    |
|         |           |                      | 8×10.5    | 290                  | 8×10.5    | 305                  | 8×10.5    | 305                  | 10×10.5   | 450                  | 10×10.5   | 450                  | 12.5×13.5 | 450                  |    |
| 470     | 6.3×7.7   | 150                  | 6.3×7.7   | 140                  | 6.3×7.7   | 140                  |           |                      | 8×10.5    | 330                  | 10×10.5   | 480                  |           |                      |    |
|         |           |                      | 8×10.5    | 330                  | 8×10.5    | 340                  | 8×10.5    | 340                  | 10×10.5   | 490                  | 12.5*13.5 | 530                  | 12.5×13.5 | 490                  |    |
| 680     | 8×10.5    | 340                  | 8×10.5    | 335                  | 8×10.5    | 380                  | 10×10.5   | 450                  | 10×10.5   | 500                  | 12.5×13.5 | 600                  | 16×16.5   | 750                  |    |
| 1000    | 8×10.5    | 350                  | 8×10.5    | 340                  | 8×10.5    | 350                  |           |                      | 10×10.5   | 550                  | 12.5×13.5 | 550                  | 16×16.5   | 800                  |    |
|         |           |                      |           |                      | 10×10.5   | 410                  | 10×10.5   | 550                  | 12.5×13.5 | 550                  | 16×16.5   | 800                  | 18×16.5   | 990                  |    |
| 1500    | 10×10.5   | 500                  | 10×10.5   | 475                  | 12.5×13.5 | 600                  | 12.5×13.5 | 650                  | 12.5×16.5 | 650                  | 16×16.5   | 900                  |           |                      |    |
| 2200    |           |                      | 12.5×13.5 | 680                  | 12.5×13.5 | 680                  | 16×16.5   | 900                  | 16×16.5   | 900                  | 18×16.5   | 1050                 |           |                      |    |
| 3300    |           |                      | 12.5×16.5 | 850                  | 16×16.5   | 950                  | 16×16.5   | 950                  | 18×16.5   | 1150                 |           |                      |           |                      |    |
| 4700    |           |                      | 16×16.5   | 1000                 | 16×16.5   | 1000                 | 18×16.5   | 1225                 | 18×21.5   | 1300                 |           |                      |           |                      |    |
| 6800    |           |                      | 18×16.5   | 1290                 | 18×16.5   | 1290                 |           |                      |           |                      |           |                      |           |                      |    |
| 8200    |           |                      | 18×21.5   | 1450                 | 18×21.5   | 1450                 |           |                      |           |                      |           |                      |           |                      |    |

I<sup>~</sup>=Rated ripple current (mA) (105°C, 120HZ) I<sup>~</sup>=额定纹波电流 (mA) (105°C, 120HZ)

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Nominal capacitance, rated voltage, rated ripple current and case size table

| V<br>μF | 63        |                   | 80        |                   | 100       |                   |
|---------|-----------|-------------------|-----------|-------------------|-----------|-------------------|
|         | D×L<br>mm | I <sub>r</sub> mA | D×L<br>mm | I <sub>r</sub> mA | D×L<br>mm | I <sub>r</sub> mA |
| 0.1     | 4×5.4     | 1.0               |           |                   |           |                   |
| 0.22    | 4×5.4     | 2.3               |           |                   |           |                   |
| 0.33    | 4×5.4     | 3.5               |           |                   |           |                   |
| 0.47    | 4×5.4     | 5.0               |           |                   |           |                   |
| 1.0     | 4×5.4     | 8                 |           |                   | 4×5.4     | 10                |
| 2.2     | 4×5.4     | 12                |           |                   | 5×5.4     | 32                |
| 3.3     | 4×5.4     | 20                |           |                   | 5×5.4     | 35                |
| 4.7     | 5×5.4     | 25                |           |                   | 5×5.4     | 40                |
|         |           |                   |           |                   | 6.3×5.4   | 45                |
| 10      | 6.3×5.4   | 42                |           |                   | 6.3×5.4   | 55                |
|         |           |                   |           |                   | 6.3×7.7   | 60                |
| 22      | 6.3×7.7   | 50                | 8×10.5    | 100               | 8×10.5    | 80                |
| 33      | 8×10.5    | 90                | 8×10.5    | 100               | 8×10.5    | 90                |
| 47      | 8×10.5    | 100               | 10×10.5   | 150               | 8×10.5    | 100               |
|         |           |                   |           |                   | 10×10.5   | 130               |
| 100     | 10×10.5   | 150               | 10×10.5   | 180               | 12.5×13.5 | 220               |
| 150     | 10×10.5   | 170               | 12.5×13.5 | 280               | 16×16.5   | 240               |
|         | 12.5×13.5 | 250               |           |                   | 16×16.5   | 410               |
| 330     | 12.5×16.5 | 300               | 16×16.5   | 510               | 18×16.5   | 520               |
| 470     | 16×16.5   | 450               | 18×16.5   | 560               |           |                   |
| 680     | 18×16.5   | 600               |           |                   |           |                   |
| 1000    | 18×21.5   | 800               |           |                   |           |                   |

I<sub>r</sub>=Rated ripple current (mA) (105°C, 120HZ) I<sub>r</sub>=额定纹波电流 (mA) (105°C, 120HZ)

五、构造图及材料表 Frame drawing and materials



| 序号<br>No. | 部件名称<br>Parts          | 材料名称<br>Material  | 主要供应厂家名称<br>Main supply Factory                                      |
|-----------|------------------------|---|--|
| 1         | 引出线                    | 铝线 LG3+镀锡铜钢线<br>AL- wire LG3+Tin-<br>plating of copper<br>cover steel | 南通全用电子工业有限公司<br>NANTONG GENENIC ELECTRONIC INDUSTRY<br>CO., LTD      |
| 2         | 橡胶塞                    | 丁基橡胶<br>IIR rubber  | 苏州毅丰橡胶工业有限公司<br>YUFENG RUBBER INDUSTRY CO, LTD.                      |
| 3         | PE 铝壳 PE- CASE         | 99.5%纯度铝<br>AL - 99.5%  | 韶关源康机电有限公司<br>SHAOGUAN YUANKANG ELECTRICAL CO.,<br>LTD               |
| 4         | 阳极箔 AL - foil(+)       | 99.99%或 99.98%形成铝<br>箔<br>Formed AL 99.98% or<br>99.98%               | 杰希希电子科技(常熟)有限公司<br>JCC ELECTRONICS TECHNOLOGY<br>(CHANGSHU) CO., LTD |
| 5         | 阴极箔 AL - foil(-)       | 99.7%铝箔<br>Etched AL 99.7%  | 博罗冠业电子有限公司<br>AFT ELECTRONIC CO. LTD. BOLUO                          |
| 6         | 电解纸 Separstor<br>paper | 电解电容器纸<br>Electrolytic<br>Capacitor paper                             | 上海铃茂新能源科技有限公司(大福)<br>DAI FUKU PAPER MFG. CO, LTD                     |
| 7         | 座板 BASE                | PPS   | 南通新联电子有限公司<br>NANTONG Xinlian ELECTRONIC CO. LTD.                    |

六、试验方法及要求 Tests

|   |   |  |      |                       |      |      |      |      |      |      |      |      |
|---|---|--|------|-----------------------|------|------|------|------|------|------|------|------|
| 1 | 系列号(SERIES)                                     | VT 系列(VT SERIES)   |      |                       |      |      |      |      |      |      |      |      |
| 2 | 额定电压<br>(rated voltage)                         | 4~100V   |      |                       |      |      |      |      |      |      |      |      |
| 3 | 工作温度范围<br>Operating temperature range operating | 工作温度范围是指电容器在额定电压下能持续工作的所允许外部环境的温度范围<br>operating temperature range is the range of ambient temperature at which the capacitor can be operated continuously at rated voltage<br>SPEC:-40~+105°C   |      |                       |      |      |      |      |      |      |      |      |
| 4 | 电容容量<br>capacitance                             | 测量等效电路图 measuring circuit equivalent series circuit  |      |                       |      |      |      |      |      |      |      |      |
|   |   | 测量温度 20°C  |      | measuring temperature |      |      |      |      |      |      |      |      |
|   |   | 测量频率 120HZ   |      | measuring frequency   |      |      |      |      |      |      |      |      |
|   |   | 测量电压 0.5Vrms   |      | measuring voltage     |      |      |      |      |      |      |      |      |
|   | 标称电容容量允许偏差:±20% MAX                             | Nominal Capacitance Tolerance:±20% MAX   |      |                       |      |      |      |      |      |      |      |      |
| 5 | 损耗角正切<br>tangent of the loss angle              | 损耗角正切的测量应要和测量电容容量一样的条件下进行<br>Measurement should be made under the same conditions as those given for the measurement of capacitance<br>SPEC:   |      |                       |      |      |      |      |      |      |      |      |
|   | 损耗角正切<br>(tg δ)                                 | U <sub>r</sub> (V)   | 4    | 6.3                   | 10   | 16   | 25   | 35   | 50   | 63   | 80   | 100  |
|   |   | tg δ   | 0.35 | 0.28                  | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.12 | 0.12 | 0.12 |
| 6 | 漏电流<br>leakage current                          | 将额定电压加在电容和 1000±100Ω 的保护电阻上。在充电 2 分钟后, 按下列等式计算漏电流<br>the rated voltage shall be applied across the capacitor and its protective resistor which shall be 1000±100Ω. The leakage current shall be then measured after an electrifications period of (A)min. The leakage current shall be calculated by the following equation<br>在加上额定电压一定时间后, 应满足下列要求: I≤0.01CV or 3μA Which is greater(取较大者)(20°C, 2 分钟)<br>SPEC: The following specifications shall be satisfied when the rated voltage is applied for the required time. |      |                       |      |      |      |      |      |      |      |      |
| 7 | 允许最大纹波电流<br>Maximum permissible ripple current  | 在规定的某一频率下的最大交流电流, 在该电流下电容器连续工作。即使在测过第 16 项下的耐久性后, 此要求仍要满足。在此, DC 电压加上最大纹波电压小于等于额定电压。<br>The maximum sinusoidal alternating current of a frequency specified below, at which the capacitor can be operated continuously. This requirement shall be satisfied even after the measurement of clause 16(electrical endurance)<br>Where(DC voltage +peak ripple voltage)≤rated voltage  |      |                       |      |      |      |      |      |      |      |      |



接上表

| 8                                | 温度特性<br>Characteristics of temperature  | <table border="1"> <thead> <tr> <th>步骤 step</th> <th>温度 temperature</th> <th>持续时间 Duration</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>20±2℃</td> <td>15 分钟 15 min</td> </tr> <tr> <td>2</td> <td>最低工作温度<br/>minimum operating temperature</td> <td>2 小时 2 hours</td> </tr> <tr> <td>3</td> <td>20±2℃</td> <td>15 分钟 15 min</td> </tr> <tr> <td>4</td> <td>最高工作温度<br/>maximum operating temperature</td> <td>2 小时 2 hours</td> </tr> </tbody> </table> <p>步骤 1: 测量容量, 损耗角正切和阻抗<br/>Step1: Capacitance, tangent of the loss angle impedance shall be measured.</p> <p>步骤 2: 在电容器存放 2 小时后, 测量容量, 损耗角正切和阻抗<br/>Step2: After the capacitor being stored for 2hours, Capacitance, tangent of the loss angle and impedance shall be measured.</p> <p>步骤 3: 电容器在 20±2℃下存放 15 分钟<br/>Step3: The capacitor being stored fro 15min at20±2℃</p> <p>步骤 4: 在电容器存放 2 小时后, 测量容量和漏电流。<br/>Step4: After the capacitor being stored for 2hours, capacitance and leakage current shall be measured</p> <table border="1"> <thead> <tr> <th>额定电压<br/>rated voltage</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>Z(-25℃/Z(+20℃)</td> <td>7</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40℃/Z(+20℃)</td> <td>15</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> </tbody> </table> | 步骤 step                                 | 温度 temperature                              | 持续时间 Duration                  | 1   | 20±2℃                          | 15 分钟 15 min              | 2              | 最低工作温度<br>minimum operating temperature | 2 小时 2 hours | 3                                | 20±2℃ | 15 分钟 15 min | 4  | 最高工作温度<br>maximum operating temperature | 2 小时 2 hours | 额定电压<br>rated voltage | 4  | 6.3 | 10 | 16  | 25                               | 35 | 50 | 63   | 80 | 100 | Z(-25℃/Z(+20℃) | 7  | 4  | 3  | 2   | 2 | 2 | 2 | 2 | 2 | 2 | Z(-40℃/Z(+20℃) | 15 | 8 | 6 | 4 | 4 | 3 | 3 | 3 | 3 | 3 |
|----------------------------------|---|--|---|---|--------------------------------|---|--------------------------------|---------------------------|----------------|---|--------------|----------------------------------|-------|--------------|----|---|--------------|-----------------------|----|-----|----|-----|----------------------------------|----|----|------|----|-----|----------------|----|----|----|-----|---|---|---|---|---|---|----------------|----|---|---|---|---|---|---|---|---|---|
|                                  |   | 步骤 step  | 温度 temperature                          | 持续时间 Duration                               |                                |   |                                |                           |                |   |              |                                  |       |              |    |   |              |                       |    |     |    |     |                                  |    |    |      |    |     |                |    |    |    |     |   |   |   |   |   |   |                |    |   |   |   |   |   |   |   |   |   |
|                                  |   | 1  | 20±2℃                                   | 15 分钟 15 min                                |                                |   |                                |                           |                |   |              |                                  |       |              |    |   |              |                       |    |     |    |     |                                  |    |    |      |    |     |                |    |    |    |     |   |   |   |   |   |   |                |    |   |   |   |   |   |   |   |   |   |
|                                  |   | 2  | 最低工作温度<br>minimum operating temperature | 2 小时 2 hours                                |                                |   |                                |                           |                |   |              |                                  |       |              |    |   |              |                       |    |     |    |     |                                  |    |    |      |    |     |                |    |    |    |     |   |   |   |   |   |   |                |    |   |   |   |   |   |   |   |   |   |
|                                  |   | 3  | 20±2℃                                   | 15 分钟 15 min                                |                                |   |                                |                           |                |   |              |                                  |       |              |    |   |              |                       |    |     |    |     |                                  |    |    |      |    |     |                |    |    |    |     |   |   |   |   |   |   |                |    |   |   |   |   |   |   |   |   |   |
| 4                                | 最高工作温度<br>maximum operating temperature | 2 小时 2 hours   |   |   |                                |   |                                |                           |                |   |              |                                  |       |              |    |   |              |                       |    |     |    |     |                                  |    |    |      |    |     |                |    |    |    |     |   |   |   |   |   |   |                |    |   |   |   |   |   |   |   |   |   |
| 额定电压<br>rated voltage            | 4                                       | 6.3  | 10                                      | 16  | 25                             | 35  | 50                             | 63                        | 80             | 100                                     |              |                                  |       |              |    |   |              |                       |    |     |    |     |                                  |    |    |      |    |     |                |    |    |    |     |   |   |   |   |   |   |                |    |   |   |   |   |   |   |   |   |   |
| Z(-25℃/Z(+20℃)                   | 7                                       | 4  | 3                                       | 2   | 2                              | 2   | 2                              | 2                         | 2              | 2                                       |              |                                  |       |              |    |   |              |                       |    |     |    |     |                                  |    |    |      |    |     |                |    |    |    |     |   |   |   |   |   |   |                |    |   |   |   |   |   |   |   |   |   |
| Z(-40℃/Z(+20℃)                   | 15                                      | 8  | 6                                       | 4   | 4                              | 3   | 3                              | 3                         | 3              | 3                                       |              |                                  |       |              |    |   |              |                       |    |     |    |     |                                  |    |    |      |    |     |                |    |    |    |     |   |   |   |   |   |   |                |    |   |   |   |   |   |   |   |   |   |
| 9                                | 浪涌测试<br>Surge test                      | <p>在规定温度下, 循环测试 1000 次, 每次充电 30±5 秒, 在放电大约 5 分 30 秒。在标准温度条件下存放使其稳定, 然后测试。</p> <p>The capacitor shall be subjected to 1000cycles at a temperature specified below, each consisting of a charge period of 30±5sec, followed by a discharge period of approx. 5min30sec. And the capacitor shall be stored under standard conditions thermal to obtain stability,after which measurements shall be made.</p> <p>measurement circuit(测试电路图)</p> <table border="1"> <tr> <td rowspan="4"> </td> <td>VS:浪涌电压<br/>Surge voltage</td> <td>V1:直流电压<br/>DC voltmeter</td> </tr> <tr> <td>R1:保护电阻 (1KΩ)<br/>Protective series resistor</td> <td>R2:放电电阻器<br/>Discharge resistor</td> </tr> <tr> <td>CX:测试电容<br/>Test capacitor</td> <td>S:开关<br/>Switch</td> </tr> <tr> <td colspan="2"></td> </tr> </table> <p>SPEC: 1) <math>\Delta C/C \leq 15\%</math><br/>2) <math>\text{tg } \delta &lt; \text{规定值}</math><br/>3) 电压</p> <table border="1"> <thead> <tr> <th>RATED VOLTAGE (V<sub>DC</sub>)</th> <th>4</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>63</th> <th>80</th> <th>100</th> </tr> </thead> <tbody> <tr> <td>SURGE VOLTAGE (V<sub>DC</sub>)</td> <td>5</td> <td>8</td> <td>11.5</td> <td>19</td> <td>28</td> <td>42</td> <td>58</td> <td>72</td> <td>92</td> <td>115</td> </tr> </tbody> </table>  |   | VS:浪涌电压<br>Surge voltage                    | V1:直流电压<br>DC voltmeter        | R1:保护电阻 (1KΩ)<br>Protective series resistor | R2:放电电阻器<br>Discharge resistor | CX:测试电容<br>Test capacitor | S:开关<br>Switch |   |              | RATED VOLTAGE (V <sub>DC</sub> ) | 4     | 6.3          | 10 | 16                                      | 25           | 35                    | 50 | 63  | 80 | 100 | SURGE VOLTAGE (V <sub>DC</sub> ) | 5  | 8  | 11.5 | 19 | 28  | 42             | 58 | 72 | 92 | 115 |   |   |   |   |   |   |                |    |   |   |   |   |   |   |   |   |   |
|                                  |   |  |   | VS:浪涌电压<br>Surge voltage                    | V1:直流电压<br>DC voltmeter        |   |                                |                           |                |   |              |                                  |       |              |    |   |              |                       |    |     |    |     |                                  |    |    |      |    |     |                |    |    |    |     |   |   |   |   |   |   |                |    |   |   |   |   |   |   |   |   |   |
|                                  |   |  |   | R1:保护电阻 (1KΩ)<br>Protective series resistor | R2:放电电阻器<br>Discharge resistor |   |                                |                           |                |   |              |                                  |       |              |    |   |              |                       |    |     |    |     |                                  |    |    |      |    |     |                |    |    |    |     |   |   |   |   |   |   |                |    |   |   |   |   |   |   |   |   |   |
|                                  |   |  |   | CX:测试电容<br>Test capacitor                   | S:开关<br>Switch                 |   |                                |                           |                |   |              |                                  |       |              |    |   |              |                       |    |     |    |     |                                  |    |    |      |    |     |                |    |    |    |     |   |   |   |   |   |   |                |    |   |   |   |   |   |   |   |   |   |
|                                  |   |  |   |   |                                |   |                                |                           |                |   |              |                                  |       |              |    |   |              |                       |    |     |    |     |                                  |    |    |      |    |     |                |    |    |    |     |   |   |   |   |   |   |                |    |   |   |   |   |   |   |   |   |   |
| RATED VOLTAGE (V <sub>DC</sub> ) | 4                                       | 6.3  | 10                                      | 16  | 25                             | 35  | 50                             | 63                        | 80             | 100                                     |              |                                  |       |              |    |   |              |                       |    |     |    |     |                                  |    |    |      |    |     |                |    |    |    |     |   |   |   |   |   |   |                |    |   |   |   |   |   |   |   |   |   |
| SURGE VOLTAGE (V <sub>DC</sub> ) | 5                                       | 8  | 11.5                                    | 19  | 28                             | 42  | 58                             | 72                        | 92             | 115                                     |              |                                  |       |              |    |   |              |                       |    |     |    |     |                                  |    |    |      |    |     |                |    |    |    |     |   |   |   |   |   |   |                |    |   |   |   |   |   |   |   |   |   |

接上表

| 10         | 端子强度<br>Terminal strength            | <p>1) 拉力(tensile)</p> <table border="1"> <thead> <tr> <th>d(mm)</th> <th>[N]</th> <th>Duration time</th> </tr> </thead> <tbody> <tr> <td>0.3&lt;d≤0.5</td> <td>5</td> <td rowspan="3">10±2sec(秒)</td> </tr> <tr> <td>0.5&lt;d≤0.8</td> <td>10</td> </tr> <tr> <td>0.8&lt;d≤1.25</td> <td>20</td> </tr> </tbody> </table> <p>2) 抗弯强度 (Bending)<br/>端子应该在每一方向上折弯一次，总共两次<br/>The terminal shall be subjected to 1 bend in each direction to give a total 2 bends.</p> <table border="1"> <thead> <tr> <th>d(mm)</th> <th>[N]</th> </tr> </thead> <tbody> <tr> <td>0.3&lt;d≤0.5</td> <td>2.5 (0.25KG)</td> </tr> <tr> <td>0.5&lt;d≤0.8</td> <td>5.0 (0.51KG)</td> </tr> <tr> <td>0.8&lt;d≤1.25</td> <td>10.0(1.0KG)</td> </tr> </tbody> </table> <p>端子没有破损或松动 SPEC: No breaking and loosening of terminal</p> | d(mm) | [N] | Duration time | 0.3<d≤0.5 | 5 | 10±2sec(秒) | 0.5<d≤0.8 | 10 | 0.8<d≤1.25 | 20 | d(mm) | [N] | 0.3<d≤0.5 | 2.5 (0.25KG) | 0.5<d≤0.8 | 5.0 (0.51KG) | 0.8<d≤1.25 | 10.0(1.0KG) |
|------------|--------------------------------------|---|-------|-----|---------------|-----------|---|------------|-----------|----|------------|----|-------|-----|-----------|--------------|-----------|--------------|------------|-------------|
| d(mm)      | [N]                                  | Duration time   |       |     |               |           |   |            |           |    |            |    |       |     |           |              |           |              |            |             |
| 0.3<d≤0.5  | 5                                    | 10±2sec(秒)  |       |     |               |           |   |            |           |    |            |    |       |     |           |              |           |              |            |             |
| 0.5<d≤0.8  | 10                                   |   |       |     |               |           |   |            |           |    |            |    |       |     |           |              |           |              |            |             |
| 0.8<d≤1.25 | 20                                   |   |       |     |               |           |   |            |           |    |            |    |       |     |           |              |           |              |            |             |
| d(mm)      | [N]                                  |   |       |     |               |           |   |            |           |    |            |    |       |     |           |              |           |              |            |             |
| 0.3<d≤0.5  | 2.5 (0.25KG)                         |   |       |     |               |           |   |            |           |    |            |    |       |     |           |              |           |              |            |             |
| 0.5<d≤0.8  | 5.0 (0.51KG)                         |   |       |     |               |           |   |            |           |    |            |    |       |     |           |              |           |              |            |             |
| 0.8<d≤1.25 | 10.0(1.0KG)                          |   |       |     |               |           |   |            |           |    |            |    |       |     |           |              |           |              |            |             |
| 11         | 可焊性<br>solderability                 | <p>焊料(Solder) : H60A. H60S or(或)H63A<br/>焊接温度(Solder temperature) : 245±2℃<br/>浸入时间(Immersion time) : 3±0.5sec(秒)<br/>浸入深度(Immersion depth) : 2mm<br/>熔化: 松香在酒精的浓度是 25%<br/>Flux: 25% by weight of rosin in ethanol<br/>从含浸处到顶部，至少要有 3/4 的部分覆盖有新焊料<br/>SPEC:1)3/4 of the circumference of the surface up to the immersed shall be covered with new solder.</p>  |       |     |               |           |   |            |           |    |            |    |       |     |           |              |           |              |            |             |
| 12         | 耐焊接热<br>Resistance to soldering heat | <p>焊料(Solder) : H60A. H60S or(或)H63A<br/>焊槽温度(Solder temperature) : 260±5℃(or 或 350±10℃<br/>浸入时间(Immersion time) : 10±1sec(秒) (or 或 3.5±0.5sec)<br/>绝热屏蔽板的厚度 (Thickness of heat shunt:1.6mm) : 1.6mm<br/>SPEC:1) <b>电容量变化</b> Change in capacitance: ±10%初始值以内 Within±10% of the initial value<br/>2) <b>损耗角正切</b> tangent of the loss angle: 小于等于初始规定值 The initial specified value or less<br/>3) <b>漏电流</b> leakage current: 小于等于初始规定值 The initial specified value or less</p>  |       |     |               |           |   |            |           |    |            |    |       |     |           |              |           |              |            |             |
| 13         | 抗振性<br>Vibration                     | <p>试验电容器的耐振性。在整个频率范围内，从 10 赫兹到 55 赫兹，然后再返回到 10 赫兹，就这样在一分钟内往返循环。振幅为 1.5mm。在三个垂直方向上，每一方向要持续 2 小时，总共 6 小时<br/>Only endurance conditioning by sweeping shall be made. The entire frequency range, from 10 to 55VT and return to 10VT, shall be transversed in 1min. Amplitude(total excursion)1.5mm, This motion shall be applied for a period of 2hours in each of 3 mutually perpendicular directions(a total of 6 hours)<br/>SPEC:1) <b>电容量的变化</b>(change in capacitance): ±5%初始值以内(within ±5%of the initial value)<br/>2) <b>无可见损伤</b>(No visible damage)</p>   |       |     |               |           |   |            |           |    |            |    |       |     |           |              |           |              |            |             |

产品规格书 Product Specification

接上表

|    |                            |   |
|----|----------------------------|---|
| 14 | <p>稳态湿热<br/>Damp heat</p>  | <p>电容器要在温度 <math>40\pm 2^{\circ}\text{C}</math>，相对湿度 90%到 95%条件下存放 <math>240\pm 8</math> 个小时。然后在标准条件下放 1 到 2 小时后进行测量。</p> <p>the capacitor shall be stored at a temperature of <math>40\pm 2^{\circ}\text{C}</math> and relative humidity of 90 to 95% for <math>240\pm 8</math> hours. And then the capacitor shall be subjected to standard atmospheric conditions for 1 to 2 hours, after which measurements shall be made</p> <p>SPEC:1) <b>电容量的变化</b> change in capacitance: <math>\pm 15\%</math>初始值以内 within <math>\pm 15\%</math> of the initial value;</p> <p>2) <b>损耗角正切</b> tangent of loss angle: 小于等于初始规定值 The initial specified value or less;</p> <p>3) <b>漏电流</b> leakage current: 小于等于初始规定值 The initial specified value or less</p>  |
| 15 | <p>高温储存<br/>shelf life</p> | <p>在 <math>105^{\circ}\text{C}</math> 温度下不外加电压贮存，电容器存放 1000 小时。然后在标准条件下放 1 到 2 小时后进行测量，并且在测漏电流前，必须满足下列条件。The capacitor shall be stored at <math>105^{\circ}\text{C}</math> temperature specified below for 1000 hours. During which time no voltage shall be applied. And then the capacitor shall be subjected to standard atmospheric conditions for 1 to 2 hours, after which measurements shall be made, Prior to the measurement of leakage current, following conditioning may be made.</p> <p>SPEC:1) <b>电容量的变化</b> change in capacitance: <math>\pm 20\%</math>初始值以内 within <math>\pm 20\%</math> of the initial value; (<math>\leq 16\text{V}</math>: <math>\pm 25\%</math>初始值以内) (<math>\leq 16\text{V}</math>: within <math>\pm 25\%</math> of the initial value);</p> <p>2) <b>损耗角正切</b> tangent of loss angle: <math>\pm 200\%</math>初始规定值以内 within <math>\pm 200\%</math> of the initial value;</p> <p>3) <b>漏电流</b> leakage current: 小于等于初始规定值 The initial specified value or less</p> |
| 16 | <p>耐久性<br/>load life</p>   | <p>在 <math>105\pm 2^{\circ}\text{C}</math> 下，电容器加额定电压 2000 小时。在标准条件下放 1 到 2 小时后进行测量。The rated voltage shall be applied continuously to the capacitor at maximum operating temperature <math>105\pm 2^{\circ}\text{C}</math> for 2000 hours. And then the capacitor shall be subjected to standard atmospheric conditions for 1 to 2 hours, after which measurement shall be made.</p> <p>SPEC:1) <b>电容量的变化</b> change in capacitance: <math>\pm 20\%</math>初始值以内 within <math>\pm 20\%</math> of the initial value; (<math>\leq 16\text{V}</math>: <math>\pm 25\%</math>初始值以内) (<math>\leq 16\text{V}</math>: within <math>\pm 25\%</math> of the initial value);</p> <p>2) <b>损耗角正切</b> tangent of loss angle: <math>\pm 200\%</math>初始规定值以内 within <math>\pm 200\%</math> of the initial value;</p> <p>3) <b>漏电流</b> leakage current: 小于等于初始规定值 The initial specified value or less</p>   |

七、标志 Marking (见外形图及尺寸表)

说明：标识中的“VT”是Shenzhen Hync Electronic Co., Ltd. VT型贴片产品的专属标识。

Information: The mark of “VT” is the special mark of VT for SMD Type of Shenzhen Hync Electronic Co., Ltd.

八、铝电解电容器产品编码体系表

Product symbol system for Aluminum Electrolytic Capacitors

| 1  | 2    | 3            | 4    | 5                | 6  | 7  | 8         | 9       | 10        | 11 | 12 | 13          | 14 | 15   | 16 | 17    | 18 |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
|--|------|--------------|------|------------------|----|--|-----------|---------|-----------|----|----|-------------|----|------|----|-------|----|----|----|----|----|----|----|----|----|----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|--|--|--|----------|------|-----|-----|------|-----|------|-----|------|-----|---|-----|-----|-----|-----|-----|-----|-----|----|-----|----|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|-------|-----|-------|-----|---|--|---------------|------|----|----|----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|----|----|-----|----|----|----|-----|----|-----|----|-----|----|----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|---|--|--|----|------|---|------|---|-----|---|-----|---|-----|-----|-----|---|-----|-----|-----|---|-----|---|-----|-----|-----|------|-----|---|-----|------|-----|----|-----|------|-----|----|-----|----|-----|------|-----|------|-----|----|-----|------|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|------|-----|----|-----|----|-----|----|-----|----|-----|--|--|----|-----|--|--|----|-----|--|--|------|-----|--|--|------|-----|--|--|----|-----|--|--|----|-----|--|--|--|--|--------|------|----|---|----|---|---|--|------|------|-----|---|--|--|
| Brand Code   |      | Voltage (WV) |      | Capacitance (μF) |    |  | Tolerance |         | Size Code |    |    | Series Code |    | Base |    | Other |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| <table border="1" style="font-size: small;"> <tr><th>Brand</th><th>Code</th></tr> <tr><td>HYNCDZ</td><td>HY</td></tr> </table> |      | Brand        | Code | HYNCDZ           | HY | <table border="1" style="font-size: small;"> <tr><th>Voltage</th><th>Code</th></tr> <tr><td>4</td><td>OQ</td></tr> <tr><td>6.3</td><td>0J</td></tr> <tr><td>10</td><td>1A</td></tr> <tr><td>16</td><td>1C</td></tr> <tr><td>25</td><td>1E</td></tr> <tr><td>35</td><td>1V</td></tr> <tr><td>50</td><td>1H</td></tr> <tr><td>63</td><td>1J</td></tr> <tr><td>80</td><td>1K</td></tr> <tr><td>100</td><td>2A</td></tr> <tr><td>125</td><td>2B</td></tr> <tr><td>160</td><td>2C</td></tr> <tr><td>180</td><td>2Z</td></tr> <tr><td>200</td><td>2D</td></tr> <tr><td>220</td><td>2P</td></tr> <tr><td>250</td><td>2E</td></tr> <tr><td>315</td><td>2F</td></tr> <tr><td>330</td><td>2U</td></tr> <tr><td>350</td><td>2V</td></tr> <tr><td>400</td><td>2G</td></tr> <tr><td>420</td><td>2M</td></tr> <tr><td>450</td><td>2W</td></tr> <tr><td>500</td><td>2H</td></tr> </table> |           | Voltage | Code      | 4  | OQ | 6.3         | 0J | 10   | 1A | 16    | 1C | 25 | 1E | 35 | 1V | 50 | 1H | 63 | 1J | 80 | 1K | 100 | 2A | 125 | 2B | 160 | 2C | 180 | 2Z | 200 | 2D | 220 | 2P | 250 | 2E | 315 | 2F | 330 | 2U | 350 | 2V | 400 | 2G | 420 | 2M | 450 | 2W | 500 | 2H | <table border="1" style="font-size: small;"> <tr><th>Cap (μF)</th><th>Code</th></tr> <tr><td>0.1</td><td>0R1</td></tr> <tr><td>0.22</td><td>R22</td></tr> <tr><td>0.33</td><td>R33</td></tr> <tr><td>0.47</td><td>R47</td></tr> <tr><td>1</td><td>010</td></tr> <tr><td>2.2</td><td>2R2</td></tr> <tr><td>3.3</td><td>3R3</td></tr> <tr><td>4.7</td><td>4R7</td></tr> <tr><td>10</td><td>100</td></tr> <tr><td>22</td><td>220</td></tr> <tr><td>33</td><td>330</td></tr> <tr><td>47</td><td>470</td></tr> <tr><td>100</td><td>101</td></tr> <tr><td>220</td><td>221</td></tr> <tr><td>270</td><td>271</td></tr> <tr><td>330</td><td>331</td></tr> <tr><td>390</td><td>391</td></tr> <tr><td>470</td><td>471</td></tr> <tr><td>560</td><td>561</td></tr> <tr><td>680</td><td>681</td></tr> <tr><td>1000</td><td>102</td></tr> <tr><td>2200</td><td>222</td></tr> <tr><td>3300</td><td>332</td></tr> <tr><td>4700</td><td>472</td></tr> <tr><td>10000</td><td>103</td></tr> <tr><td>22000</td><td>223</td></tr> </table> |  |  | Cap (μF) | Code | 0.1 | 0R1 | 0.22 | R22 | 0.33 | R33 | 0.47 | R47 | 1 | 010 | 2.2 | 2R2 | 3.3 | 3R3 | 4.7 | 4R7 | 10 | 100 | 22 | 220 | 33 | 330 | 47 | 470 | 100 | 101 | 220 | 221 | 270 | 271 | 330 | 331 | 390 | 391 | 470 | 471 | 560 | 561 | 680 | 681 | 1000 | 102 | 2200 | 222 | 3300 | 332 | 4700 | 472 | 10000 | 103 | 22000 | 223 | <table border="1" style="font-size: small;"> <tr><th>Tolerance (%)</th><th>Code</th></tr> <tr><td>+5</td><td>JC</td></tr> <tr><td>-5</td><td>JC</td></tr> <tr><td>+10</td><td>KC</td></tr> <tr><td>-10</td><td>KC</td></tr> <tr><td>+15</td><td>YC</td></tr> <tr><td>-15</td><td>YC</td></tr> <tr><td>+20</td><td>MC</td></tr> <tr><td>-20</td><td>MC</td></tr> <tr><td>+20</td><td>RC</td></tr> <tr><td>-0</td><td>RC</td></tr> <tr><td>+20</td><td>HC</td></tr> <tr><td>-5</td><td>HC</td></tr> <tr><td>+20</td><td>VC</td></tr> <tr><td>-10</td><td>VC</td></tr> <tr><td>+30</td><td>FC</td></tr> <tr><td>-0</td><td>FC</td></tr> <tr><td>+30</td><td>GC</td></tr> <tr><td>+10</td><td>GC</td></tr> <tr><td>+30</td><td>QC</td></tr> <tr><td>-10</td><td>QC</td></tr> <tr><td>+20</td><td>EC</td></tr> <tr><td>-15</td><td>EC</td></tr> </table> |  | Tolerance (%) | Code | +5 | JC | -5 | JC | +10 | KC | -10 | KC | +15 | YC | -15 | YC | +20 | MC | -20 | MC | +20 | RC | -0 | RC | +20 | HC | -5 | HC | +20 | VC | -10 | VC | +30 | FC | -0 | FC | +30 | GC | +10 | GC | +30 | QC | -10 | QC | +20 | EC | -15 | EC | <table border="1" style="font-size: small;"> <tr><th>ΦD</th><th>Code</th><th>L</th><th>Code</th></tr> <tr><td>3</td><td>030</td><td>5</td><td>050</td></tr> <tr><td>4</td><td>040</td><td>5.4</td><td>054</td></tr> <tr><td>5</td><td>050</td><td>7.7</td><td>077</td></tr> <tr><td>6</td><td>060</td><td>9</td><td>090</td></tr> <tr><td>6.3</td><td>063</td><td>10.5</td><td>105</td></tr> <tr><td>8</td><td>080</td><td>12.5</td><td>125</td></tr> <tr><td>10</td><td>100</td><td>13.5</td><td>135</td></tr> <tr><td>12</td><td>120</td><td>14</td><td>140</td></tr> <tr><td>12.5</td><td>125</td><td>16.5</td><td>165</td></tr> <tr><td>13</td><td>130</td><td>21.5</td><td>215</td></tr> <tr><td>14</td><td>140</td><td>25</td><td>250</td></tr> <tr><td>16</td><td>160</td><td>30</td><td>300</td></tr> <tr><td>18</td><td>180</td><td>35</td><td>350</td></tr> <tr><td>19</td><td>190</td><td>40</td><td>400</td></tr> <tr><td>20</td><td>200</td><td>45</td><td>450</td></tr> <tr><td>22</td><td>220</td><td>50</td><td>500</td></tr> <tr><td>25.4</td><td>254</td><td>55</td><td>550</td></tr> <tr><td>30</td><td>300</td><td>60</td><td>600</td></tr> <tr><td>35</td><td>350</td><td></td><td></td></tr> <tr><td>40</td><td>400</td><td></td><td></td></tr> <tr><td>50</td><td>500</td><td></td><td></td></tr> <tr><td>50.8</td><td>508</td><td></td><td></td></tr> <tr><td>63.4</td><td>634</td><td></td><td></td></tr> <tr><td>76</td><td>760</td><td></td><td></td></tr> <tr><td>89</td><td>890</td><td></td><td></td></tr> </table> |  |  | ΦD | Code | L | Code | 3 | 030 | 5 | 050 | 4 | 040 | 5.4 | 054 | 5 | 050 | 7.7 | 077 | 6 | 060 | 9 | 090 | 6.3 | 063 | 10.5 | 105 | 8 | 080 | 12.5 | 125 | 10 | 100 | 13.5 | 135 | 12 | 120 | 14 | 140 | 12.5 | 125 | 16.5 | 165 | 13 | 130 | 21.5 | 215 | 14 | 140 | 25 | 250 | 16 | 160 | 30 | 300 | 18 | 180 | 35 | 350 | 19 | 190 | 40 | 400 | 20 | 200 | 45 | 450 | 22 | 220 | 50 | 500 | 25.4 | 254 | 55 | 550 | 30 | 300 | 60 | 600 | 35 | 350 |  |  | 40 | 400 |  |  | 50 | 500 |  |  | 50.8 | 508 |  |  | 63.4 | 634 |  |  | 76 | 760 |  |  | 89 | 890 |  |  | <p>填写品种<br/>览表的系<br/>列名称<br/>Fill in Series<br/>Code Of<br/>Variety list</p> <p>例:</p> <table border="1" style="font-size: small;"> <tr><th>Series</th><th>Code</th></tr> <tr><td>VT</td><td>M</td></tr> <tr><td>VD</td><td>N</td></tr> </table> |  | Series | Code | VT | M | VD | N | <table border="1" style="font-size: small;"> <tr><th>Base</th><th>Code</th></tr> <tr><td>PPA</td><td>E</td></tr> </table> |  | Base | Code | PPA | E |  |  |
| Brand  | Code |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| HYNCDZ   | HY   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| Voltage  | Code |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 4  | OQ   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 6.3  | 0J   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 10   | 1A   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 16   | 1C   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 25   | 1E   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 35   | 1V   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 50   | 1H   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 63   | 1J   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 80   | 1K   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 100  | 2A   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 125  | 2B   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 160  | 2C   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 180  | 2Z   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 200  | 2D   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 220  | 2P   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 250  | 2E   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 315  | 2F   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 330  | 2U   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 350  | 2V   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 400  | 2G   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 420  | 2M   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 450  | 2W   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 500  | 2H   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| Cap (μF)   | Code |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 0.1  | 0R1  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 0.22   | R22  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 0.33   | R33  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 0.47   | R47  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 1  | 010  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 2.2  | 2R2  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 3.3  | 3R3  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 4.7  | 4R7  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 10   | 100  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 22   | 220  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 33   | 330  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 47   | 470  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 100  | 101  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 220  | 221  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 270  | 271  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 330  | 331  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 390  | 391  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 470  | 471  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 560  | 561  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 680  | 681  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 1000   | 102  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 2200   | 222  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 3300   | 332  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 4700   | 472  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 10000  | 103  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 22000  | 223  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| Tolerance (%)  | Code |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| +5   | JC   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| -5   | JC   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| +10  | KC   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| -10  | KC   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| +15  | YC   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| -15  | YC   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| +20  | MC   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| -20  | MC   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| +20  | RC   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| -0   | RC   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| +20  | HC   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| -5   | HC   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| +20  | VC   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| -10  | VC   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| +30  | FC   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| -0   | FC   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| +30  | GC   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| +10  | GC   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| +30  | QC   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| -10  | QC   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| +20  | EC   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| -15  | EC   |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| ΦD   | Code | L            | Code |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 3  | 030  | 5            | 050  |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 4  | 040  | 5.4          | 054  |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 5  | 050  | 7.7          | 077  |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 6  | 060  | 9            | 090  |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 6.3  | 063  | 10.5         | 105  |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 8  | 080  | 12.5         | 125  |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 10   | 100  | 13.5         | 135  |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 12   | 120  | 14           | 140  |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 12.5   | 125  | 16.5         | 165  |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 13   | 130  | 21.5         | 215  |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 14   | 140  | 25           | 250  |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 16   | 160  | 30           | 300  |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 18   | 180  | 35           | 350  |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 19   | 190  | 40           | 400  |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 20   | 200  | 45           | 450  |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 22   | 220  | 50           | 500  |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 25.4   | 254  | 55           | 550  |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 30   | 300  | 60           | 600  |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 35   | 350  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 40   | 400  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 50   | 500  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 50.8   | 508  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 63.4   | 634  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 76   | 760  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| 89   | 890  |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| Series   | Code |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| VT   | M    |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| VD   | N    |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| Base   | Code |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |
| PPA  | E    |              |      |                  |    |  |           |         |           |    |    |             |    |      |    |       |    |    |    |    |    |    |    |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |  |  |  |          |      |     |     |      |     |      |     |      |     |   |     |     |     |     |     |     |     |    |     |    |     |    |     |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |     |      |     |      |     |      |     |       |     |       |     |   |  |               |      |    |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |    |    |     |    |    |    |     |    |     |    |     |    |    |    |     |    |     |    |     |    |     |    |     |    |     |    |   |  |  |    |      |   |      |   |     |   |     |   |     |     |     |   |     |     |     |   |     |   |     |     |     |      |     |   |     |      |     |    |     |      |     |    |     |    |     |      |     |      |     |    |     |      |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |      |     |    |     |    |     |    |     |    |     |  |  |    |     |  |  |    |     |  |  |      |     |  |  |      |     |  |  |    |     |  |  |    |     |  |  |  |  |        |      |    |   |    |   |   |  |      |      |     |   |  |  |

Terminal Code

例:

|        |   |     |   |       |   |      |   |   |   |     |   |   |     |   |    |    |    |
|--------|---|-----|---|-------|---|------|---|---|---|-----|---|---|-----|---|----|----|----|
| H      | Y | 1   | C | 1     | 0 | 1    | M | C | 0 | 6   | 3 | 0 | 5   | 4 | M  | E  | O  |
| HYNCDZ |   | 16V |   | 100UF |   | ±20% |   |   |   | 6.3 |   |   | 5.4 |   | VT | 座板 | 其他 |

## 九、片式铝电解电容的编带

V- Chip Type Aluminum Electrolytic Capacitors

编带 Carrier tape



| $\Phi D \times L$ | 4×5.4 | 5×5.4 | 6.3×5.4 | 6.3×7.7 | 6.3*10.5 | 8×10.5 | 8×12.5 | 10×10.5 | 10×12.5 | 12.5×13.5 | 12.5×16.5 | 16×16.5 | 18×16.5 | 18×21.5 | (mm) |
|-------------------|-------|-------|---------|---------|----------|--------|--------|---------|---------|-----------|-----------|---------|---------|---------|------|
| W                 | 12.0  | 12.0  | 16.0    | 16.0    | 16.0     | 24.0   | 24.0   | 24.0    | 24.0    | 32.0      | 32.0      | 44.0    | 44.0    | 44.0    |      |
| P                 | 8.0   | 12.0  | 12.0    | 12.0    | 12.0     | 16.0   | 16.0   | 16.0    | 16.0    | 24.0      | 24.0      | 28.0    | 32.0    | 32.0    |      |
| F                 | 5.5   | 5.5   | 7.5     | 7.5     | 7.5      | 11.5   | 11.5   | 11.5    | 11.5    | 14.2      | 14.2      | 20.2    | 20.2    | 20.2    |      |
| A <sub>0</sub>    | 5.0   | 6.0   | 7.0     | 7.0     | 7.0      | 8.7    | 8.7    | 10.7    | 10.7    | 13.2      | 13.2      | 17.5    | 19.5    | 19.5    |      |
| B <sub>0</sub>    | 5.0   | 6.0   | 7.0     | 7.0     | 7.0      | 8.7    | 8.7    | 10.7    | 10.7    | 13.2      | 13.2      | 17.5    | 19.5    | 19.5    |      |
| T <sub>2</sub>    | 5.8   | 5.8   | 5.8     | 8.0     | 11.0     | 11.0   | 13.3   | 11.0    | 13.3    | 14.3      | 17.3      | 17.3    | 17.8    | 22.5    |      |

## ■ 编带包装盘 Reel



## ■ Package quantity 包装数量

| $\Phi D \times L$     | Quantity / Reel<br>数量 / 每盘 | pcs/ Small packing box<br>数量/小包装箱 | pcs/Large packing box<br>数量/大包装箱 |
|-----------------------|----------------------------|-----------------------------------|----------------------------------|
| 4×5.4                 | 2000pcs                    | 24000pcs                          | 48000pcs                         |
| 5×5.4                 | 1000pcs                    | 12000pcs                          | 24000pcs                         |
| 6.3×5.4、6.3×7.7、8×6.5 | 1000pcs                    | 10000pcs                          | 20000pcs                         |
| 8×10.5、10×10.5        | 500pcs                     | 3500pcs                           | 7000pcs                          |
| 6.3×10.5              | 800pcs                     | 8000pcs                           | 16000pcs                         |
| 8×12.5                | 400pcs                     | 2800pcs                           | 5600pcs                          |
| 10×12.5               | 400pcs                     | 2800pcs                           | 5600pcs                          |
| 12.5×13.5             | 200pcs                     | 1200pcs                           | 2400pcs                          |
| 12.5×16.5             | 150pcs                     | 900pcs                            | 1800pcs                          |
| 16×16.5               | 125pcs                     | 625pcs                            | 1250pcs                          |
| 18×16.5               | 125pcs                     | 625pcs                            | 1250pcs                          |
| 18×21.5               | 75pcs                      | 375pcs                            | 750pcs                           |