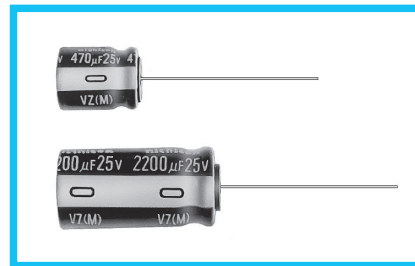
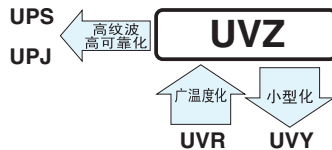


铝电解电容器 ALUMINUM ELECTROLYTIC CAPACITORS

UVZ 广温度范围品



- 与UVR尺寸相同的广温度范围品。
- RoHS指令 (2011/65/EU) 已对应完毕。

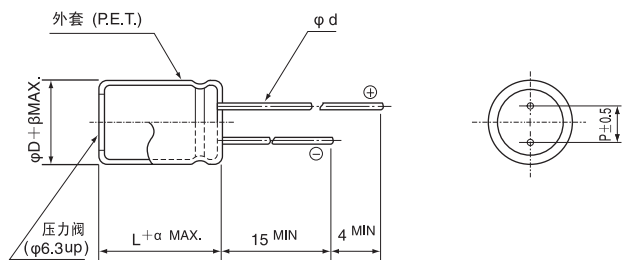


外套颜色：黑色

■ 仕様

| 项 目                                     | 性 能  |  |      |      |      |      |      |      |  |         |         |       |     |       |  |
|---|--|--|------|------|------|------|------|------|--|---------|---------|-------|-----|-------|--|
| 分类温度范围                                  | -55~+105°C (6.3~100V), -40~+105°C (160~400V), -25~+105°C (450V)        |  |      |      |      |      |      |      |  |         |         |       |     |       |  |
| 额定电压范围                                  | 6.3~450V   |  |      |      |      |      |      |      |  |         |         |       |     |       |  |
| 额定静电容量范围                                | 0.47~33000 µF  |  |      |      |      |      |      |      |  |         |         |       |     |       |  |
| 额定静电容量容许差                               | ±20% (120Hz, 20°C)   |  |      |      |      |      |      |      |  |         |         |       |     |       |  |
| 漏损电流                                    | 额定电压 (V)   | 6.3~100  |      |      |      |      |      |      | 160~450  |         |         |       |     |       |  |
|   |  | I = 0.03CV 或 4 (µA) 中的较大值以下 (1分値, 20°C)<br>I = 0.01CV 或 3 (µA) 中的较大值以下 (2分値, 20°C) |      |      |      |      |      |      | CV ≤ 1000: I = 0.1CV + 40 (µA) 以下 (1分値, 20°C)<br>CV > 1000: I = 0.04CV + 100 (µA) 以下 (1分値, 20°C) |         |         |       |     |       |  |
| 损失角正切值 (tan δ)                          | 额定电压 (V)   | 6.3  | 10   | 16   | 25   | 35   | 50   | 63   | 100  | 160~315 | 350~450 | 120Hz |     |       |  |
|   | tan δ (MAX.)   | 0.28   | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.10 | 0.08   | 0.20    | 0.25    | 20°C  |     |       |  |
| 对于超过1000 µF的产品, 每增加1000 µF, 其值便随之增加0.02 |  |  |      |      |      |      |      |      |  |         |         |       |     |       |  |
| 温度特性                                    | 额定电压 (V)   | 6.3  | 10   | 16   | 25   | 35   | 50   | 63   | 100  | 160~200 | 250~350 | 400   | 450 | 120Hz |  |
|   | 电阻率 (MAX.)   | Z-25°C / Z+20°C  |      | 5    | 4    | 3    | 2    | 2    | 2  | 2       | 3       | 4     | 6   | 15    |  |
|   |  | Z-40°C / Z+20°C  |      | 10   | 8    | 6    | 4    | 3    | 3  | 3       | 4       | 8     | 10  | —     |  |
| 耐久性                                     | 在105°C下 连续印加额定电压1000小时后, 返回20°C 进行测定时, 满足以下项目                          |  |      |      |      |      |      |      |  |         |         |       |     |       |  |
|   | 静电容量变化率  | 初始值的±20%以内   |      |      |      |      |      |      |  |         |         |       |     |       |  |
|   | 损失角正切值 (tan δ)   | 初始标准值的200%以下   |      |      |      |      |      |      |  |         |         |       |     |       |  |
|   | 漏损电流   | 初始标准值以下  |      |      |      |      |      |      |  |         |         |       |     |       |  |
| 高温无负荷特性                                 | 在105°C下, 无负荷放置1000小时后, 在20°C下根据 JIS C 5101-4 4.1项进行电压处理后, 应满足上述耐久性的标准值 |  |      |      |      |      |      |      |  |         |         |       |     |       |  |
| 表示                                      | 在黑色外套上标识白色   |  |      |      |      |      |      |      |  |         |         |       |     |       |  |

■ 尺寸图 04型



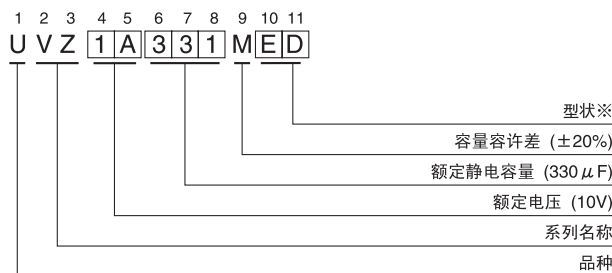
(单位: mm)

|    |     |     |     |     |      |     |     |      |      |      |
|----|-----|-----|-----|-----|------|-----|-----|------|------|------|
| φD | 5   | 6.3 | 8   | 10  | 12.5 | 16  | 18  | 20   | 22   | 25   |
| P  | 2.0 | 2.5 | 3.5 | 5.0 | 5.0  | 7.5 | 7.5 | 10.0 | 10.0 | 12.5 |
| φd | 0.5 | 0.5 | 0.6 | 0.6 | 0.6  | 0.8 | 0.8 | 1.0  | 1.0  | 1.0  |
| β  | 0.5 | 0.5 | 0.5 | 0.5 | 0.5  | 0.5 | 0.5 | 0.5  | 1.0  | 1.0  |

|   |                              |
|---|------------------------------|
| α | (L < 20) 1.5<br>(L ≥ 20) 2.0 |
|---|------------------------------|

● 封口部的型状请参照第19页。

品号编码体系 (例: 10V 330 µF)



※ 型状

| φD      | 无铅电镀端子 PET外套品编码 |
|---------|-----------------|
| 5       | DD              |
| 6.3     | ED              |
| 8 · 10  | PD              |
| 12.5~18 | HD              |
| 20~25   | RD              |

- 关于引线加工, 编带仕样, 请参照第19页和第20页。
- 订货单位请参照第4页。

● 尺寸表见下页。

铝电解电容器 ALUMINUM ELECTROLYTIC CAPACITORS



■ 尺寸表

| (μF)<br>额定静容量 | V<br>品号代码 | 6.3       |      | 10        |      | 16        |      | 25        |      | 35        |      | 50        |        |                  |          |
|---------------|-----------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|------|-----------|--------|------------------|----------|
|               |           | 0J        |      | 1A        |      | 1C        |      | 1E        |      | 1V        |      | 1H        |        |                  |          |
| 2.2           | 2R2       |           |      |           |      |           |      |           |      |           |      |           | 5 × 11 | 20               |          |
| 3.3           | 3R3       |           |      |           |      |           |      |           |      |           |      |           | 5 × 11 | 25               |          |
| 4.7           | 4R7       |           |      |           |      |           |      | 5 × 11    | 25   | 5 × 11    | 28   | 5 × 11    | 30     |                  |          |
| 10            | 100       |           |      |           |      | 5 × 11    | 35   | 5 × 11    | 36   | 5 × 11    | 41   | 5 × 11    | 46     |                  |          |
| 22            | 220       | 5 × 11    | 45   | 5 × 11    | 45   | 5 × 11    | 54   | 5 × 11    | 58   | 5 × 11    | 61   | 5 × 11    | 68     |                  |          |
| 33            | 330       | 5 × 11    | 55   | 5 × 11    | 58   | 5 × 11    | 65   | 5 × 11    | 68   | 5 × 11    | 75   | 5 × 11    | 90     |                  |          |
| 47            | 470       | 5 × 11    | 65   | 5 × 11    | 68   | 5 × 11    | 79   | 5 × 11    | 83   | 5 × 11    | 93   | 6.3 × 11  | 115    |                  |          |
| 100           | 101       | 5 × 11    | 95   | 5 × 11    | 105  | 5 × 11    | 115  | 6.3 × 11  | 140  | 6.3 × 11  | 150  | 8 × 11.5  | 190    |                  |          |
| 220           | 221       | 5 × 11    | 145  | 6.3 × 11  | 175  | 6.3 × 11  | 190  | 8 × 11.5  | 240  | 10 × 12.5 | 275  | 10 × 12.5 | 300    |                  |          |
| 330           | 331       | 6.3 × 11  | 195  | 6.3 × 11  | 210  | 8 × 11.5  | 265  | 10 × 12.5 | 315  | 10 × 12.5 | 350  | 10 × 16   | 410    |                  |          |
| 470           | 471       | 6.3 × 11  | 230  | 6.3 × 11  | 250  | 8 × 11.5  | 315  | 10 × 12.5 | 380  | 10 × 16   | 460  | 12.5 × 20 | 530    |                  |          |
| 1000          | 102       | 8 × 11.5  | 390  | 10 × 12.5 | 460  | 10 × 16   | 560  | 10 × 20   | 680  | 12.5 × 20 | 810  | 12.5 × 25 | 950    |                  |          |
| 2200          | 222       | 10 × 20   | 710  | 10 × 20   | 760  | 12.5 × 20 | 920  | 12.5 × 25 | 1090 | 16 × 25   | 1260 | 16 × 35.5 | 1470   |                  |          |
| 3300          | 332       | 10 × 20   | 840  | 12.5 × 20 | 1000 | 12.5 × 25 | 1170 | 16 × 25   | 1400 | 16 × 35.5 | 1610 | 18 × 35.5 | 1770   |                  |          |
| 4700          | 472       | 12.5 × 20 | 1090 | 12.5 × 25 | 1260 | 16 × 25   | 1480 | 16 × 31.5 | 1710 | 18 × 35.5 | 1910 | 20 × 40   | 2100   |                  |          |
| 6800          | 682       | 12.5 × 25 | 1350 | 16 × 25   | 1570 | 16 × 35.5 | 1780 | 18 × 35.5 | 2040 | 20 × 40   | 2150 | 22 × 50   | 2500   |                  |          |
| 10000         | 103       | 16 × 25   | 1650 | 16 × 35.5 | 1890 | 18 × 35.5 | 2060 | 20 × 40   | 2150 | 22 × 50   | 2650 | 25 × 50   | 2850   |                  |          |
| 15000         | 153       | 16 × 35.5 | 2010 | 18 × 35.5 | 2180 | 20 × 40   | 2430 | 22 × 50   | 2750 | 25 × 50   | 3100 |           |        |                  |          |
| 22000         | 223       | 18 × 40   | 2350 | 20 × 40   | 2650 | 22 × 50   | 3000 | 25 × 50   | 3250 |           |      |           |        |                  |          |
| 33000         | 333       | 22 × 50   | 2800 | 22 × 50   | 3250 | 25 × 50   | 3450 |           |      |           |      |           |        |                  |          |
|               |           |           |      |           |      |           |      |           |      |           |      |           |        | 铝壳尺寸<br>φD×L(mm) | 额定<br>纹波 |

| (μF)<br>额定静容量 | V<br>品号代码 | 63      |      | 100     |      | 160     |      | 200     |     | 250     |     | 315     |     | 350     |     | 400     |     | 450     |                  |          |
|---------------|-----------|---------|------|---------|------|---------|------|---------|-----|---------|-----|---------|-----|---------|-----|---------|-----|---------|------------------|----------|
|               |           | 1J      |      | 2A      |      | 2C      |      | 2D      |     | 2E      |     | 2F      |     | 2V      |     | 2G      |     | 2W      |                  |          |
| 0.47          | R47       |         |      |         |      | 6.3×11  | 11   | 6.3×11  | 11  | 6.3×11  | 10  |         |     |         |     |         |     |         |                  |          |
| 1             | 010       |         |      |         |      | 6.3×11  | 16   | 6.3×11  | 16  | 6.3×11  | 15  | 6.3×11  | 15  | 6.3×11  | 15  | 8×11.5  | 17  | 8×11.5  | 13               |          |
| 2.2           | 2R2       |         |      | 5×11    | 21   | 6.3×11  | 25   | 6.3×11  | 25  | 6.3×11  | 23  | 8×11.5  | 26  | 8×11.5  | 26  | 10×12.5 | 30  | 10×12.5 | 23               |          |
| 3.3           | 3R3       |         |      | 5×11    | 29   | 6.3×11  | 30   | 6.3×11  | 30  | 8×11.5  | 32  | 10×12.5 | 38  | 10×12.5 | 38  | 10×12.5 | 38  | 10×16   | 31               |          |
| 4.7           | 4R7       |         |      | 5×11    | 32   | 6.3×11  | 34   | 8×11.5  | 39  | 8×11.5  | 39  | 10×12.5 | 45  | 10×12.5 | 45  | 10×16   | 50  | 10×20   | 40               |          |
| 10            | 100       | 5×11    | 46   | 6.3×11  | 54   | 8×11.5  | 41   | 10×12.5 | 65  | 10×16   | 74  | 10×20   | 80  | 10×20   | 80  | 12.5×20 | 90  | 12.5×20 | 65               |          |
| 22            | 220       | 5×11    | 71   | 6.3×11  | 93   | 10×16   | 100  | 10×20   | 120 | 12.5×20 | 130 | 12.5×20 | 115 | 12.5×25 | 115 | 16×25   | 165 | 16×25   | 115              |          |
| 33            | 330       | 6.3×11  | 100  | 8×11.5  | 130  | 10×20   | 145  | 12.5×20 | 160 | 12.5×20 | 160 | 16×25   | 195 | 16×25   | 195 | 16×31.5 | 215 | 16×35.5 | 165              |          |
| 47            | 470       | 6.3×11  | 120  | 10×12.5 | 165  | 12.5×20 | 195  | 12.5×20 | 195 | 12.5×25 | 210 | 16×25   | 230 | 16×35.5 | 270 | 16×35.5 | 270 | 18×40   | 185              |          |
| 100           | 101       | 10×12.5 | 215  | 10×20   | 265  | 12.5×25 | 215  | 16×31.5 | 375 | 16×31.5 | 365 | 18×35.5 | 395 | 18×40   | 420 | 20×40   | 450 | 22×40   | 270              |          |
| 220           | 221       | 10×16   | 335  | 12.5×25 | 440  | 16×35.5 | 570  | 18×35.5 | 575 | 20×40   | 600 | 22×50   | 620 | 22×50   | 620 | 25×50   | 660 |         |                  |          |
| 330           | 331       | 10×20   | 510  | 12.5×25 | 540  | 18×40   | 750  | 20×40   | 705 | 22×50   | 730 | 25×50   | 760 |         |     |         |     |         |                  |          |
| 470           | 471       | 12.5×20 | 640  | 16×25   | 715  | 22×40   | 900  | 22×50   | 840 | 25×50   | 870 |         |     |         |     |         |     |         |                  |          |
| 1000          | 102       | 16×25   | 930  | 18×40   | 985  | 25×50   | 1310 |         |     |         |     |         |     |         |     |         |     |         |                  |          |
| 2200          | 222       | 18×35.5 | 1650 | 22×50   | 1750 |         |      |         |     |         |     |         |     |         |     |         |     |         |                  |          |
| 3300          | 332       | 20×40   | 1950 | 25×50   | 2070 |         |      |         |     |         |     |         |     |         |     |         |     |         |                  |          |
| 4700          | 472       | 22×50   | 2450 |         |      |         |      |         |     |         |     |         |     |         |     |         |     |         |                  |          |
| 6800          | 682       | 25×50   | 2800 |         |      |         |      |         |     |         |     |         |     |         |     |         |     |         |                  |          |
|               |           |         |      |         |      |         |      |         |     |         |     |         |     |         |     |         |     |         | 铝壳尺寸<br>φD×L(mm) | 额定<br>纹波 |

105°C 120Hz 时的额定纹波电流 (mArms)

● 额定纹波电流的频率修正系数

| V         | Cap.(μF)   | 频率   |       |       |       |          |
|-----------|------------|------|-------|-------|-------|----------|
|           |            | 50Hz | 120Hz | 300Hz | 1 kHz | 10 kHz ~ |
| 6.3 ~ 100 | 2.2~47     | 0.75 | 1.00  | 1.35  | 1.57  | 2.00     |
|           | 100~470    | 0.80 | 1.00  | 1.23  | 1.34  | 1.50     |
|           | 1000~33000 | 0.85 | 1.00  | 1.10  | 1.13  | 1.15     |
| 160 ~ 450 | 0.47~220   | 0.80 | 1.00  | 1.25  | 1.40  | 1.60     |
|           | 330~1000   | 0.90 | 1.00  | 1.10  | 1.13  | 1.15     |