

公司简介

南京新玉跃电子有限公司是成立于 1992 年的中外合资企业（原名南京玉跃电子有限公司），具有 10 多年专业制造陶瓷电容器的生产经验。公司主要产品为全系列陶瓷电容器，包括低、中、高压及交流产品，广泛应用于家电、通讯、照明等整机并为仪表等装备产品配套，年生产能力达到 10 亿只以上，出口占销售总额的 50% 以上，遍及世界各个国家和地区。目前，公司形成了完整的管理体系，已通过 ISO9001 质量管理体系和 ISO14001 环境管理体系认证，产品满足 ROHS、REACH 要求，同时我们的安规产品在中国、美国、德国、加拿大、挪威、芬兰、瑞典、丹麦均已获得认证。

严格、科学的管理体系，先进的生产设备，雄厚的技术力量以及良好的服务，使我们多年来享誉中外。南京新玉跃电子有限公司是您最好的合作伙伴！

Company Profile

NanJing YuYue Electronics Co., Ltd, a joint venture established in 1992, is a professional manufacturer of ceramic capacitors with over ten years' history. The main products include full series of ceramic capacitors, ranging from low, mid & high voltage to AC safety standards capacitors. Our annual capacity is up to 1 billion pieces and the products are widely spread all over the world. The amounts for export accounts for over half of the all sales. Being an ISO9001 and ISO14001 certificated company, we have also obtained safety approvals in China (CQC), U.S.A (UL), Germany (VDE), Canada (CSA), Norway (NEMKO), Finland (FIMKO), Sweden (SEMKO), Denmark (DEMKO), and our product comply with ROHS 、 REACH directive.

We have been widely accepted for many years at home and abroad, with our scientific management system, advanced equipments, strong technical support and excellent services, NanJing YuYue Electronics Co., Ltd. is your best choice!





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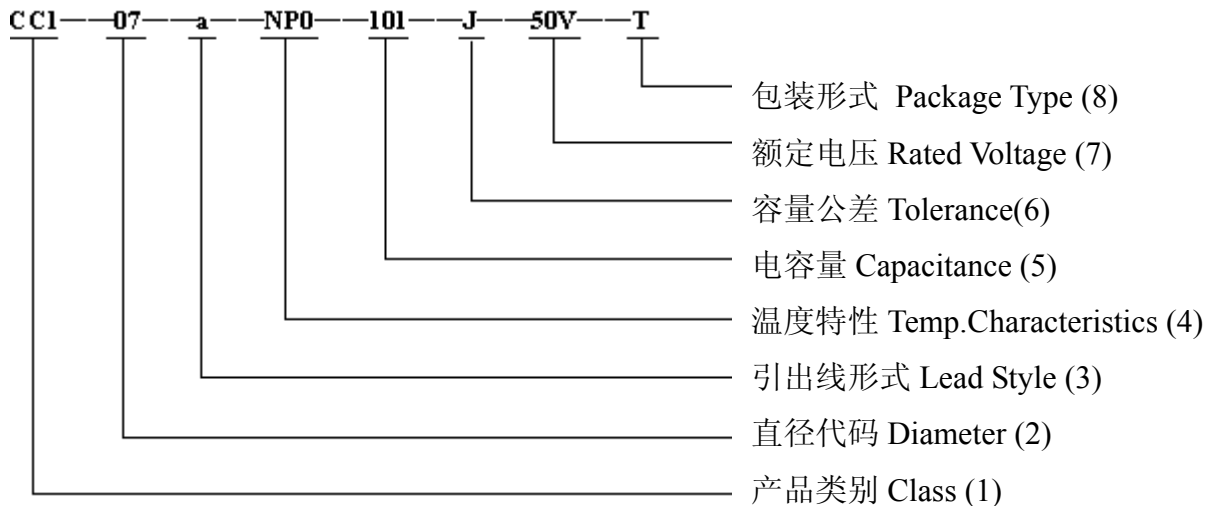
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■独石电容 MULTILAYER CERAMIC CAPACITOR

| | | |
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一、 品名的表示方法 Part Numbering System



1. 产品类别 CLASS

1.1 温度补偿类型(I类)

Temperature Compensation (Class I)

| | | |
|--------------------|----------|------|
| 代码 Code | CC1 | CC81 |
| 额定电压 Rated Voltage | 50V~500V | ≥1KV |

1.2 高介电常数型(II类)

High Dielectric Constant (Class II)

| | | | |
|--------------------|----------|------|-----------|
| 代码 Code | CT1 | CT81 | CT7 |
| 额定电压 Rated Voltage | 50V~500V | ≥1KV | X1Y1/X1Y2 |

1.3 半导体型(III类)

Semi-Conductive Dielectric (Class III)

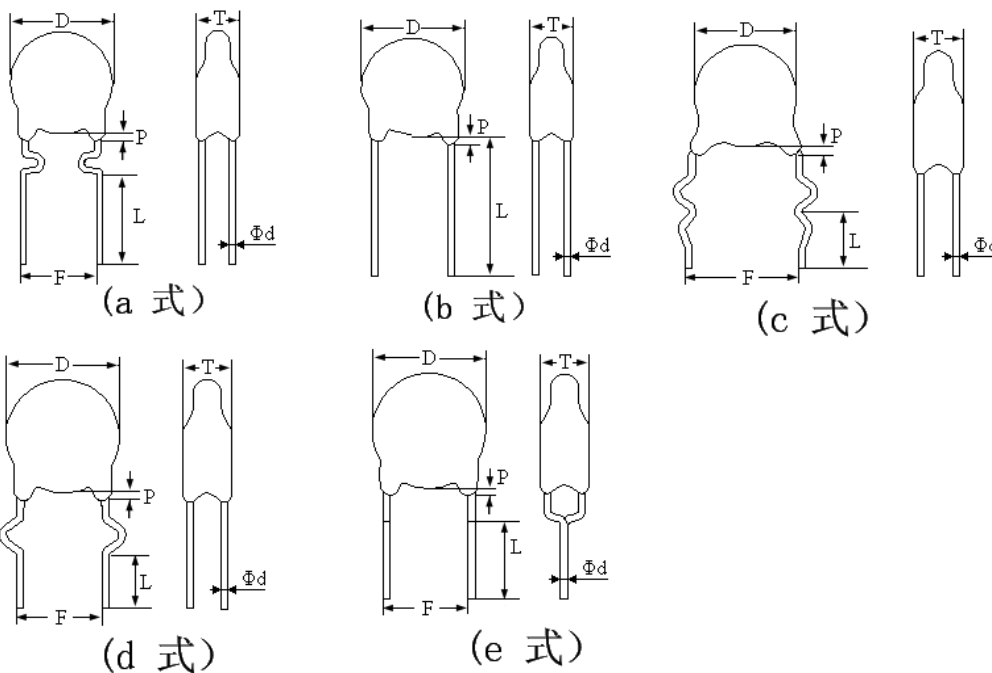
| | |
|--------------------|---------|
| 代码 Code | CS1 |
| 额定电压 Rated Voltage | 16V~50V |

2. 直径代码 Diameter

| | | | | | | | | | | | | | | |
|------------|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|
| 代码 Code | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 18 |
| 片径 D±1(mm) | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 18.0 |

| | | | | | |
|------------|---|---|---|---|---|
| 代码 Code | a | b | c | d | e |
|------------|---|---|---|---|---|

3. 引出线形式 Lead Style



4. 温度特性 Temperature Characteristics

4.1 I类 Class I

| | | | | | | | |
|--------------|------------|-------------|-------------|-------------|-------------|-------------|--------------------|
| 组别代码 Code | NP0 (C) | N150 (P) | N220 (R) | N330 (S) | N470 (T) | N750 (U) | P350~N1000 (SL) |
|--------------|------------|-------------|-------------|-------------|-------------|-------------|--------------------|

4.2 II、III类 Class II、Class III

| | | | | |
|--------------|----------------|-------------|-----------------|-----------------|
| 组别代码 Code | Y5P (2B、BN) | Y5R (2R) | Y5U、Z5U (2E) | Y5V、Z5V (2F) |
|--------------|----------------|-------------|-----------------|-----------------|

5. 电容量 Capacitance

| | | | | | | | |
|-------------------|-------|-----|------|-------|--------|--------|-------|
| 代码 Code | 0R5 | 1R0 | 100 | 101 | 102 | 103 | 104 |
| 容量 Capacitance | 0.5pF | 1pF | 10pF | 100pF | 1000pF | 0.01uF | 0.1uF |

6. 电容量公差 Capacitance Tolerance

| | | | | | | |
|--|---------------------|---------------------|-------------------|------------|------------|--------------|
| 代码 Code | C | D | J | K | M | Z |
| 容量公差 Cap. Tolerance | $\pm 0.25\text{pF}$ | $\pm 0.50\text{pF}$ | $\pm 5\%$ | $\pm 10\%$ | $\pm 20\%$ | $+80\%-20\%$ |
| 适用容量范围 Applicable Capacitance Range | $\leq 5\text{pF}$ | | $\geq 5\text{pF}$ | | | |

**圆片瓷介电容器
DISC CERAMIC CAPACITOR**

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7. 额定电压 (U_R) Rated Voltage

DC: 从 16V 到 15KV From 16V to 15KV

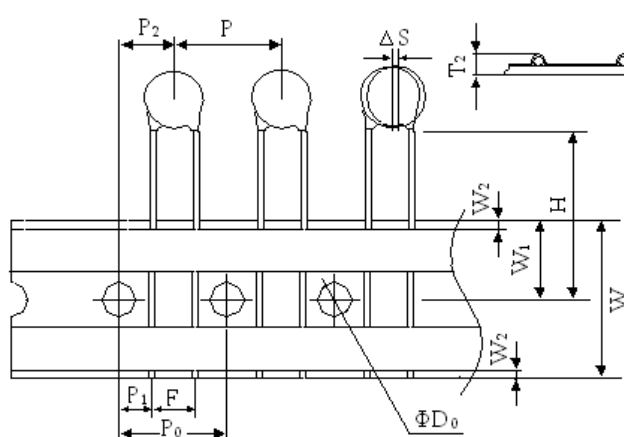
AC: X1Y1 X1Y2

8. 包装形式 Package Type

| | | |
|----------------------|------------|-----------------------------|
| 代码 Code | B | T |
| 包装形式 Package Type | 散件 Bulk | 盒式编带 Taping Ammo Package |

■ 编带 Taping Specification

直引线 straight leads



内弯引线 inside crimped leads

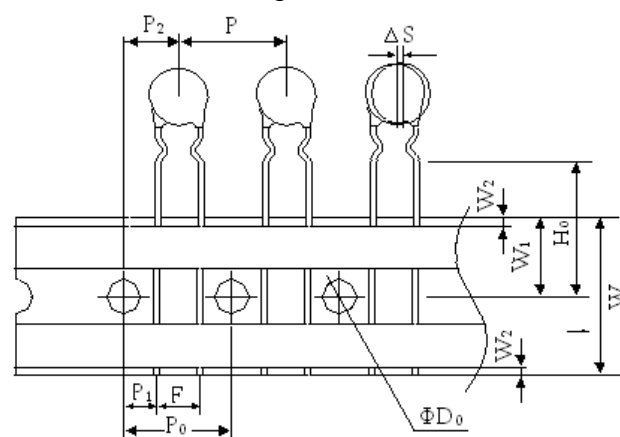


表 1

| Item | Code | Value (mm) | |
|---|------|--|---------------------|
| Pitch of component | P | 12.7 ± 1.0 | 15.0 ± 1.0 |
| Pitch of sprocket hole | P0 | 12.7 ± 0.3 | 15.0 ± 0.3 |
| Lead spacing | F | $5.0^{+0.8}_{-0.2}$ | $7.5^{+0.8}_{-0.2}$ |
| Length from hole center to component center | P2 | 6.35 ± 1.0 | 7.5 ± 1.0 |
| Length from hole center to lead | P1 | 3.85 ± 0.7 | 3.75 ± 0.7 |
| Body diameter | D | See the individual product specification | |
| Deviation along tape, left or right | ΔS | 0 ± 1.0 | |
| Carrier tape width | W | 18.0 ± 0.5 | |
| Position of sprocket hole | W1 | 9.0 ± 0.5 | |
| Lead distance between reference and bottom | H | $20^{+1.5}_{-1.0}$ | |

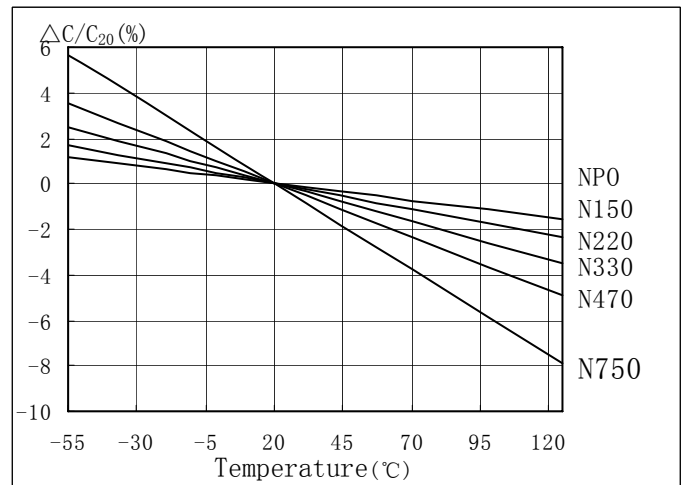
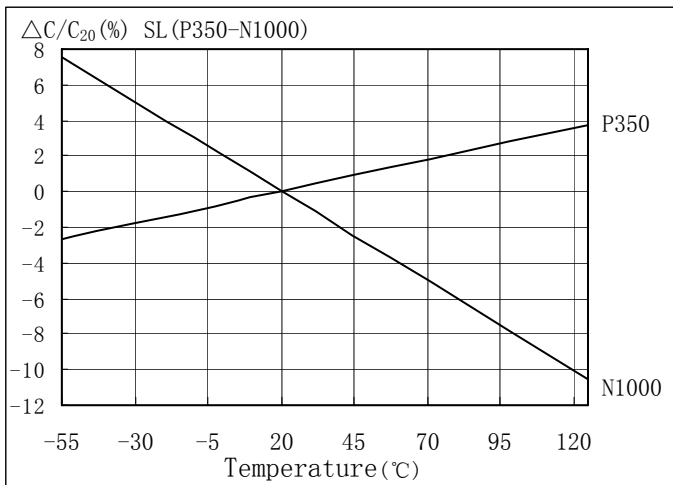
| | | |
|-------------------------------------|------------|--------------------|
| | H0 | $16_{-0.5}^{+1.0}$ |
| Diameter of sprocket hole | ΦD_0 | 4.0 ± 0.2 |
| Total tape thickness | t1 | 0.5 ± 0.2 |
| Total thickness, tape and lead wire | t2 | 1.5max |
| Hold down tape position | W2 | $1.5_{-0}^{+1.5}$ |
| Deviation across tape | Δh | 0 ± 1.0 |

说明：我们将对产品进行持续的改进，因此技术规格参数若有变动或更改，以承认规格书为准。

Note: Dimensions and specifications are subject to changes in accordance with our continuous improvement and our specification for approval should be taken as the latest.

二、 温度特性 Temperature Characteristics

1. I类瓷温度系数 Class I Temperature Coefficient (T.C.)

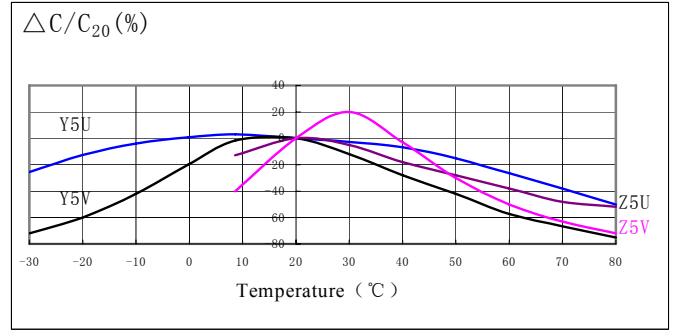
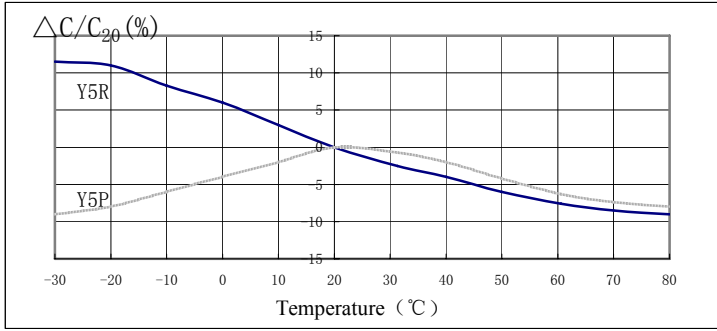


温度系数、公差及色标

Temperature Coefficient (T.C.), Tolerance and Code Color

| 温系代码 T.C. Code | 温系色标 T.C.Color Code | 温系及公差 T.C. TOL | 温系代码 T.C.Code | 温系色标 T.C.Color Code | 温系及公差 T.C. TOL. |
|-------------------|------------------------|-------------------|------------------|------------------------|--------------------|
| NP0 | 黑 Black | 0±30(CG) | N470 | 兰 Blue | -470±60(TH) |
| | | 0±60(CH) | | | -750±120(UJ) |
| N150 | 橙 Orange | -150±60(PH) | N750 | 紫 Violet | -750±250(UK) |
| N220 | 黄 Yellow | -220±60(RH) | | | SL |
| N330 | 绿 Green | -330±60(SH) | DL | | -3300±500 |

2. II、III类瓷温度特性 Class II、Class III Temperature Characteristics (T.C.)



温度特性 Temperature Characteristics

| EIA 代码 | | | GB 代码 | | |
|---------------------|---------------------|---------------------|-------|---------|-----------|
| 第一位字 The 1st letter | 第二位字 The 2nd letter | 第三位字 The 3rd letter | | | |
| X -55°C | 5 +85°C | P ±10% | 2B | ±10% | -25~+85°C |
| Y -30°C | 6 +105°C | R ±15% | 2E | +22-56% | |
| Z +10°C | 7 +125°C | S ±22% | 2F | +22-82% | |
| | | T +22%-33% | | | |
| | | U +22%-56% | | | |
| | | V +22%-82% | | | |

三、 CT7 安规认定瓷介电容器

CT7 Safety Standard recognized Ceramic Capacitor

特性 Features

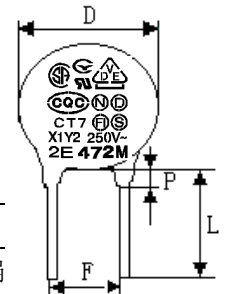
适合用在需安规认定、产品失效时可能导致电冲击危险的场合

These Ceramic Capacitors are specifically designed for AC applications and be used wherever they may be resulted in electronic shock when products are invalid.

■ X1,Y2 型 X1,Y2 Series

常规性能 General Specification

| | |
|-------------------------------------|---|
| 工作温度范围 Operating Temp. Range | -25°C to +125°C |
| 电容量 Capacitance | 在 1KHz±20% , 1.0±0.2Vrms 下测试, 容量在允许偏 Within the Specified Tolerance at 1KHz±20% , 1.0±0.2 v _{rms} |
| 电容量公差 Capacitance Tolerance | K:±10%, M:±20% |
| 损耗 Dissipation Factor(DF) | ≤2.5% at 1KHz±20% 1.0V±0.2Vrms |
| 耐电压 Dielectric Withstanding Voltage | 2600Vac for 2~5S |
| 绝缘电阻(IR)Insulation Resistance | 10000MΩ min at 500VDC and 1 minute electrification |



| 标准 Applicable Standard | | 证书号码 Certificate No. | 额定电压 (U _R) Rated Voltage | 标记 Approved Monogram |
|------------------------|--------------------|----------------------|---|-------------------------|
| UL | UL1414 | E237728 | AC250V (r. m. s) | |
| CSA | CSA-C22.2 No. 1-98 | 1515289 | | |
| CQC | GB/T14472 | CQC03001008192 | | |
| VDE | EN60384-14 | 40008013 | | |

| | | | | |
|-------|--|-----------|--|----|
| DEMKO | | 312603-01 | | ⓓ |
| SEMKO | | 313019 | | Ⓢ |
| FIMKO | | 20349 | | ⓕI |
| NEMKO | | P04201486 | | Ⓝ |

电容量规格 Capacitance Specification

| 电容量 Capacitance(pF) | | | 外形尺寸 Diameter(mm) | | | |
|----------------------------------|-----------|----------|-------------------|------|-------|--------|
| 温度特性 Temperature Characteristics | | | D | Tmax | F±1.0 | d±0.05 |
| 2B (Y5P) | 2E (Y5U) | 2F (Y5V) | | | | |
| 100~330 | | 10~1500 | 06 | 6.0 | 7.5 | 0.60 |
| 390~470 | 1000~1500 | 2200 | 07 | | | |
| 560~680 | | | 08 | | | |
| 820~1000 | 2200 | 3300 | 09 | | | |
| | | 4700 | 10 | | | |
| | 3300 | | 11 | | | |
| | | 6800 | 12 | | | |
| | 4700 | | 13 | | | |
| | | 10000 | 14 | | | |

圆片瓷介电容器 DISC CERAMIC CAPACITOR

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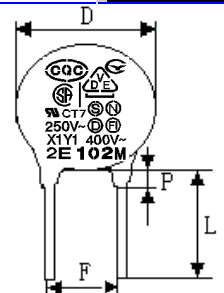
X1,Y1 型 X1,Y1 Series

特性 Features

适合用在需安规认定、产品失效时可能导致电冲击危险的情况

These Ceramic Capacitors are specifically designed for AC applications and be used wherever they may be resulted in electronic shock when products are invalid.

常规性能 General Specification








| | |
|-------------------------------------|--|
| 工作温度范围 Operating Temp. Range | -25°C to +125°C |
| 电容量 Capacitance | 在 1KHz±20% , 1.0±0.2Vrms 下测试, 容量在允许偏差范围内 Within the Specified Tolerance at 1KHz±20% , 1.0±0.2Vrms |
| 电容量公差 Capacitance Tolerance | K:±10%, M:±20% |
| 损耗 Dissipation Factor(DF) | ≤2.5% at 1KHz±20% 1.0V±0.2Vrms |
| 耐电压 Dielectric Withstanding Voltage | 4000Vac for 2~5 S |
| 绝缘电阻(IR)Insulation Resistance | 10000MΩ min at 500VDC and 1 minute electrification |

| 标准 Related Standard | | 证书号码 Certificate No. | 额定电压 (U _R) Rated Voltage | 标记 Approved Monogram |
|---------------------|-------------------|----------------------|---|-------------------------|
| UL | UL1414 | E237728 | AC250V (r. m. s) | |
| CSA | CSA-C22.2 NO.1-98 | 1515289 | | |
| CQC | GB/T14472 | CQC03001008193 | | |

圆片瓷介电容器
DISC CERAMIC CAPACITOR

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| | | | | |
|-------|------------|-----------|------------------|---|
| VDE | EN60384-14 | 40008010 | AC400V (r. m. s) |  |
| DEMKO | | 315034-01 | |  |
| SEMKO | | 906443 | |  |
| FIMKO | | 25150 | |  |
| NEMKO | | P09210990 | |  |

电容量规格 Capacitance Specification

| 电容量 Capacitance(pF) | | | 外形尺寸 Diameter(mm) | | | |
|----------------------------------|-----------|----------|-------------------|------|-------|--------|
| 温度特性 Temperature Characteristics | | | D | Tmax | F±1.0 | d±0.05 |
| 2B (Y5P) | 2E (Y5U) | 2F (Y5V) | | | | |
| 100~220 | 470 | 1000 | 06 | 7.0 | 10.0 | 0.60 |
| 270~330 | 1000 | 1500 | 07 | | | |
| 390~470 | | | 08 | | | |
| 560~680 | | 2200 | 09 | | | |
| 820 | 1500~2200 | 3300 | 10 | | | |
| 1000 | | | 11 | | | |
| | 3300 | 4700 | 12 | | | |
| | 4700 | | 15 | | | |

※ 超出本规范的圆片瓷介电容器产品，可按顾客要求提供。For units beyond above specification, please consult us.

四、 HR 系列高压瓷介电容器

HR Series High Voltage Ceramic Capacitor

特性 Features

低损耗，用于开关电源缓冲器 Low Loss for Switching Power Supply Snubber Circuit

常规性能 General Specification

| | |
|-------------------------------------|---|
| 工作温度范围 Operating Temp. Range | -25℃ to +85℃ |
| 电容量 Capacitance | 在 1KHz±20% ， 1.0±0.2Vrms 下测试，容量在允许偏差范围内 Within the Specified Tolerance at 1KHz±20% ， 1.0±0.2Vrms |
| 电容量公差 Capacitance Tolerance | K: ±10%, M: ±20% |
| 损耗 Dissipation Factor(DF) | DF≤0.2% at 1KHz±20% ， 1.0±0.2Vrms |
| 额定电压 Rated Voltage(U _R) | 1KV、2KV |
| 耐电压 Dielectric Withstanding Voltage | 2U _R for 2 to 5 S (Charge /Discharge current≤50mA) |
| 绝缘电阻(IR)Insulation Resistance | 10000MΩ min at 500VDC and 1 minute electrification |

电容量规格 Capacitance Specification

| | | |
|-----------------------|----------------------|-----------------------|
| 额定电压 Rated Voltage | 电容量 Capacitance (pF) | 外形尺寸 Diameter (mm) |
|-----------------------|----------------------|-----------------------|

| | | 温度特性 Temperature Characteristics | | | | |
|-----|---------|----------------------------------|----|------|------------------|--------|
| DC | SL | Y5R (R) | D | Tmax | F±1.0 | d±0.05 |
| 1KV | 10~68 | 150~330 | 05 | 4.0 | 5.0 or 7.5 | 0.6 |
| | 82~100 | 470~560 | 06 | | | |
| | 150~180 | 680 | 07 | | | |
| | 220 | 820~1000 | 08 | | | |
| | 270 | 1200 | 09 | | | |
| | 330~390 | 1500~1800 | 10 | | | |
| | 470 | 2200 | 12 | | | |
| 2KV | 10~47 | 100~330 | 06 | 5.0 | 5.0 or 7.5 | 0.6 |
| | 56~100 | 390~560 | 07 | | | |
| | 120~150 | 680 | 08 | | | |
| | 180 | 820 | 09 | | | |
| | | 1000 | 10 | | | |
| | 220~270 | 1500 | 12 | | | |
| | 330 | 1800~2200 | 14 | | | |
| | 470~560 | 3300 | 16 | | | |

五、 CC1 温度补偿型圆片瓷介电容器 (Class I)

CC1 Temperature Compensating Ceramic Capacitor (Class I)

特性 Features

电容量变化与温度呈线性 Linear Capacitance Change over Temperature

容量稳定性高 High Stability of Capacitance

低损耗 Low Loss at Wide Range of Frequency

多种温度系数, 适用于谐振回路及温度补偿效应的回路。

Various T.C. available Suits for Oscillation and Temperature Compensating Circuit.

常规性能 General Specification

| | |
|-------------------------------------|---|
| 工作温度范围 Operating Temp. Range | -25℃ to +85℃ |
| 电容量 Capacitance | 在 1MHz±20% , 1.0±0.2Vrms 下测试, 容量在允许偏差范围内 Within the Specified Tolerance at 1MHz±20% , 1.0±0.2Vrms |
| 电容量公差 Capacitance Tolerance | C:±0.25pF, D:±0.5pF, J:±5%, K: ±10% |
| 损耗 Dissipation Factor(DF) | $C < 50\text{pF}$, $DF \leq 1.5(150/C_R + 7) \times 10^{-4}$ $C \geq 50\text{pF}$, $DF \leq 15 \times 10^{-4}$ at 1MHz±20% , 1.0±0.2Vrms |
| 额定电压 Rated Voltage(U_R) | 50V to 500V |
| 耐电压 Dielectric Withstanding Voltage | $2.5U_R$ for 2 to 5 S (Charge /Discharge current $\leq 50\text{mA}$) |
| 绝缘电阻(IR)Insulation Resistance | 10000MΩ min at rated voltage and 1 minute electrification |

圆片瓷介电容器

DISC CERAMIC CAPACITOR

YUYUE

电容量规格 Capacitance Specification

| 额定电压 Rated voltage | 电容量 Capacitance (pF) | | | | | | | 外形尺寸 Diameter (mm) | | |
|--------------------------|-------------------------------|-------------|-------------|-------------|-------------|-------------|---------|--------------------------|------------------|----|
| | 温度系数 Temperature Coefficient. | | | | | | | | | |
| DC | NP0 (C) | N150 (P) | N220 (R) | N330 (S) | N470 (T) | N750 (U) | SL | D | F±1.0 | |
| 50V | 0.5~47 | 1~47 | 15~39 | 15~39 | 15~39 | 20~56 | 24~220 | 04 | 2.5 0r 5.0 | |
| | | | | | | | | 05 | | |
| | | 51~82 | 51~62 | 43~56 | | | 62~82 | 240~270 | | 06 |
| | | 100 | 680~100 | 62~100 | | | 91~120 | 300~430 | | 07 |
| 160V | 110~150 | 110~150 | 110~150 | | | 121~150 | 470~550 | 08 | | |
| | 180~260 | 180~260 | 180~260 | | | 180~200 | 560~680 | 09 | | |
| 250V | 270~330 | | | | | 220~270 | 750~820 | 10 | | |
| | 360~390 | | | | | | 1000 | 12 | | |
| | 470 | | | | | | | 14 | | |
| 500V | 1~39 | | | | | | 20~120 | 05 | | |
| | 47 | | | | | | 150~180 | 06 | | |
| | 51~68 | | | | | | 200~220 | 07 | | |
| | 82~100 | | | | | | 270 | 08 | | |
| | | | | | | | 300~330 | 09 | | |

六、 CT1 高介电常数型圆片瓷介电容器(Class II)

CT1 High Dielectric Constant Ceramic Capacitor(Class II)

特性 Features

电容量变化与温度呈非线性关系 Nonlinear Capacitance change over temperature
适用于旁路、耦合电路中 Suits for By-pass, Coupling Circuit

常规性能 General Specification

| | |
|-------------------------------------|--|
| 工作温度范围 Operating Temp. Range | Y5P、Y5U、Y5V: -25℃ to +85℃, Z5U、Z5V: +10℃ to +85℃ |
| 电容量 Capacitance | 在 1KHz±20% , 1.0±0.2Vrms 下测试, 容量在允许偏差范围内 Within the Specified Tolerance at 1KHz±20% , 1.0±0.2Vrms |
| 电容量公差 Capacitance Tolerance | K: ±10%, M: ±20%, Z: +80-20% |
| 损耗 Dissipation Factor(DF) | Y5P, : DF≤2.5%, BN≤0.5% Y5U, Z5U , Y5V, Z5V: DF≤3.5% at 1KHz±20% , 1.0±0.2Vrms |
| 额定电压 Rated Voltage(U _R) | 50V to 500V |
| 耐电压 Dielectric Withstanding Voltage | 2.5U _R for 2 to 5 S (Charge /Discharge current≤50mA) |
| 绝缘电阻(IR)Insulation Resistance | 4000MΩ min at rated voltage and 1 minute electrification |

圆片瓷介电容器

DISC CERAMIC CAPACITOR

YUYUE

电容量规格 Capacitance Specification

| 额定电压 Rated Voltage | 电容量 Capacitance (pF) | | | | | 外形尺寸 Diameter (mm) | |
|-----------------------|----------------------------------|------------|------------|------------|------------|--------------------------|------------------|
| | 温度特性 Temperature Characteristics | | | | | | |
| DC | Y5P (B、BN) | Y5U (E) | Z5U (E) | Y5V (F) | Z5V (F) | D | F±1.0 |
| 50V | 100~2200 | 1000~5000 | 1000~6800 | 4700~6800 | 5600~10000 | 05 | 2.5 or 5.0 |
| | 2400~3300 | 5600~6800 | 8200~10000 | 8200~10000 | 15000 | 06 | |
| | 3600~4700 | 8200~10000 | 15000 | | 22000 | 07 | |
| 160V | 5000~6800 | | 22000 | 22000 | | 08 | |
| | 8200 | | | | | 09 | |
| | 10000 | | | | | 10 | |
| 250V | 100~1000 | 1000~2200 | 1000~2200 | 2200~3300 | | 05 | |
| | 1200~1500 | 2700~3300 | 2700~3300 | 3900~5600 | 4700~5000 | 06 | |
| | 1800~2200 | 3900~4700 | 3900~5000 | 6800~8200 | 6800 | 07 | |
| 500V | 2700 | 5000~6800 | 5600~6800 | 10000 | 8200~10000 | 08 | |
| | 3000~3900 | 8200~10000 | 8200~10000 | | 15000 | 09 | |
| | 4700 | | | 22000 | 22000 | 10 | |
| | 5600~6800 | | 22000 | 33000 | | 12 | |
| | 8200~10000 | | | 47000 | | 14 | |
| | | | | 100000 | | 18 | |

七、 CS1 半导体型圆片瓷介电容器 (ClassIII)

CS1 Semi-Conductive Dielectric Ceramic Capacitor (ClassIII)

特性 Features

大容量、小体积 Large Capacitance in Small Size

适用于绝缘电阻低的低阻抗电路 Used in Low Impedance Circuit of Low IR

常规性能 General Specification

| | |
|-------------------------------------|--|
| 工作温度范围 Operating Temp. Range | -25℃ to +85℃ |
| 电容量 Capacitance | 在 1KHz±20% , 0.1±0.01Vrms 下测试, 容量在允许偏差范围内 Within the Specified Tolerance at 1KHz±20% , 0.1±0.01Vrms |
| 电容量公差 Capacitance Tolerance | K: ±10%, M: ±20%, Z: +80-20% |
| 损耗 Dissipation Factor(DF) | Y5P: DF≤3.5%, Y5U: DF≤5.0%, Y5V: DF≤7.5% at 1KHz±20% , 0.1±0.01Vrms |
| 额定电压 Rated Voltage(U _R) | 16V, 25V, 50V |
| 耐电压 Dielectric Withstanding Voltage | 1.5U _R for 2 to 5 S (Charge /Discharge current≤50mA) |
| 绝缘电阻(IR)Insulation Resistance | 16V: 100MΩ or 10 MΩuF 1 minute electrification 25V、50V: 1000MΩ or 20 MΩuF 1 minute electrification |

圆片瓷介电容器

DISC CERAMIC CAPACITOR

YUYUE

电容量规格 Capacitance Specification

| 额定电压 Rated Voltage | 电容量 Capacitance (pF) | | | 外形尺寸 Diameter (mm) | |
|--------------------------|----------------------------------|--------------|--------------|--------------------------|------------------|
| | 温度特性 Temperature Characteristics | | | | |
| DC | Y5P (B) | Y5U (E) | Y5V (F) | D | F±1.0 |
| 16V | | 100000 | 100000 | 05 | 2.5 or 5.0 |
| | | | 220000 | 06 | |
| | | | 40000~47000 | 08 | |
| 25V | 10000 | 40000~47000 | 50000~68000 | 04 | |
| | 15000~27000 | | 100000 | 05 | |
| | 33000~47000 | 82000~100000 | | 06 | |
| | 47000~68000 | 150000 | 220000 | 07 | |
| | | 220000 | | 08 | |
| | 82000~100000 | | | 09 | |
| 50V | | | 10000~22000 | 10 | |
| | 10000~15000 | 10000~33000 | 33000~47000 | 04 | |
| | 18000~27000 | 40000~47000 | 68000~100000 | 05 | |
| | | 82000~100000 | | 06 | |
| | 33000~68000 | | 220000 | 07 | |
| | 100000 | | | 08 | |
| | | | 11 | | |

注:100V 以上产品可根据顾客要求提供

Units of 100v and over are available upon request.

八、 CC81 型高压瓷介电容器

CC81 Series High Voltage Ceramic Capacitor

特性 Features

环氧树脂包封, 可提供无卤素环氧树脂包封 Epoxy Coating for all Parts, HF Epoxy Coating be provided

容量稳定性高 High Stability of Capacitance

常规性能 General Specification

| | |
|-------------------------------------|---|
| 工作温度范围 Operating Temp. Range | -25℃ to +85℃ |
| 电容量 Capacitance | 在 1MHz±20% , 1.0±0.2Vrms 下测试, 容量在允许偏差范围内 Within the Specified Tolerance at 1MHz±20% , 1.0±0.2Vrms |
| 电容量公差 Capacitance Tolerance | C:±0.25pF, D:±0.5pF, J:±5%, K: ±10% |
| 损耗 Dissipation Factor(DF) | $C < 50\text{pF}$, $DF \leq 1.5(150/C_R + 7) \times 10^{-4}$ $C \geq 50\text{pF}$, $DF \leq 15 \times 10^{-4}$ at 1MHz±20% , 1.0±0.2Vrms |
| 额定电压 Rated Voltage(U_R) | 1KV to 3KV |
| 耐电压 Dielectric Withstanding Voltage | $1.5U_R + 500\text{V}$ for 2 to 5 S (Charge /Discharge current $\leq 50\text{mA}$) |
| 绝缘电阻(IR)Insulation Resistance | 10000MΩ min at 500VDC and 1 minute electrification |

圆片瓷介电容器

DISC CERAMIC CAPACITOR

YUYUE

电容量规格 Capacitance Specification

| 额定电压 Rated Voltage | 电容量 Capacitance (pF) | | 外形尺寸 Diameter (mm) | | | |
|--------------------------|----------------------------------|---------|--------------------|------|-------------------|------------------|
| | 温度特性 Temperature Characteristics | | | | | |
| DC | NPO | SL | D | Tmax | F±1.0 | d±0.05 |
| 1KV | 1~33 | 20~120 | 05 | 4.0 | 5.0 or 7.5 | 0.5 or 0.6 |
| | 36~39 | | 06 | | | |
| | 47~68 | 150~180 | 07 | | | |
| | 82 | 220 | 08 | | | |
| | 100~120 | 270 | 09 | | | |
| | 150 | 330~470 | 10 | | | |
| | 180~220 | | 12 | | | |
| 2KV | 1~18 | 10~47 | 06 | 5.0 | 7.5 | 0.6 |
| | | 56~100 | 07 | | | |
| | 20~39 | 120~150 | 08 | | | |
| | 47~56 | 180 | 09 | | | |
| | 68 | | 10 | | | |
| | 82 | 220~270 | 12 | | | |
| | 100~120 | 330 | 14 | | | |
| | | 470~560 | 16 | | | |
| 3KV | 2~15 | 10~33 | 06 | 6.0 | 7.5 or 10.0 | 0.6 |
| | 18~22 | 39~47 | 07 | | | |
| | | 56~68 | 08 | | | |
| | | 82~150 | 09 | | | |

九、 CT81 型高压瓷介电容器

CT81 Series High Voltage Ceramic Capacitor

特性 Features

环氧树脂包封, 可提供无卤素环氧树脂包封, 应用范围广泛
Epoxy Coating for all Parts, HF Epoxy Coating be provided, Wide Range of General Purpose Applications

Epoxy Coating for all Parts, HF Epoxy

常规性能 General Specification

| | |
|-------------------------------------|--|
| 工作温度范围 Operating Temp. Range | Y5P、Y5U、Y5V: -25℃ to +85℃, Z5U、Z5V: +10℃ to +85℃ |
| 电容量 Capacitance | 在 1KHz±20% , 1.0±0.2Vrms 下测试, 容量在允许偏差范围内 Within the Specified Tolerance at 1KHz±20% , 1.0±0.2Vrms |
| 电容量公差 Capacitance Tolerance | K: ±10%, M: ±20%, Z: +80-20% |
| 损耗 Dissipation Factor(DF) | Y5P、Y5U、Z5U: DF≤2.0%, BN: DF≤0.5%, Y5V、Z5V: DF≤3.5% at 1KHz±20% , 1.0±0.2Vrms |
| 额定电压 Rated Voltage(U _R) | 1KV to 6.3KV (6KV) |
| 耐电压 Dielectric Withstanding Voltage | 1.5U _R +500V for 2 to 5 S (Charge /Discharge current≤50mA) |
| 绝缘电阻(IR)Insulation Resistance | 10000MΩ min at 500VDC and 1 minute electrification |

圆片瓷介电容器

DISC CERAMIC CAPACITOR

YUYUE

电容量规格 Capacitance Specification

| 额定电压 Rated Voltage | 电容量 Capacitance (pF) | | | | | | 外形尺寸 Diameter (mm) | | | |
|-----------------------|----------------------------------|-----------|-----------|-----------|-----------|----------|-----------------------|------|--------------------------------|------------------|
| | 温度特性 Temperature Characteristics | | | | | | D | Tmax | F±1.0 | d±0.05 |
| DC | Y5P (2B) | BN (Y5P) | Y5U (2E) | Z5U (2E) | Y5V (2F) | Z5V (2F) | | | | |
| 1KV | 100~680 | 100~680 | | | 1000~2200 | | 05 | 4.0 | 5.0 Or 7.5 or 10.0 | 0.5 Or 0.6 |
| | 820~1000 | 820~1000 | 1000~2200 | 1000~2200 | 3300 | | 06 | | | |
| | 1200~1500 | 1200~1500 | 3300 | 3300 | 4700 | | 07 | | | |
| | 1800~2000 | 1800~2000 | 4700 | 4700 | 6800 | 10000 | 08 | | | |
| | 2700~3300 | 2700~3300 | 6800 | 6800 | 10000 | 15000 | 09 | | | |
| | 3900 | 3900 | | | | | 10 | | | |
| | 4700 | 4700 | 10000 | 10000 | | 22000 | 11 | | | |
| | | | | | | | 12 | | | |
| | 5600 | 5600 | | | | | 13 | | | |
| | 6800 | 6800 | | | | 33000 | 14 | | | |
| 8200~10000 | 8200~10000 | | | | 47000 | 15 | | | | |
| 2KV | 100~470 | 100~470 | 470~1000 | 470~1000 | 1000~2200 | | 06 | 5.0 | 5.0 Or 7.5 or 10.0 | 0.5 Or 0.6 |
| | 560~820 | 560~820 | 1500 | 1500 | 3300 | | 07 | | | |
| | 1000~1500 | 1000~1500 | 2200 | 2200 | 4700 | | 08 | | | |
| | 1800 | 1800 | 3300 | 3300 | 6800 | 6800 | 09 | | | |
| | 2200 | 2200 | 3900~4700 | 3900~4700 | | 10000 | 10 | | | |
| | 2700 | 2700 | | | 10000 | | 11 | | | |
| | 3300 | 3300 | 6800 | 6800 | | | 12 | | | |
| | 3900 | 3900 | 10000 | 10000 | | 15000 | 13 | | | |
| | 4700 | 4700 | | | | | 14 | | | |
| | | | | | | 22000 | 15 | | | |

To be continued

续 CT81 型高压瓷介电容器

| 额定电压 | 电容量 Capacitance (pF) | 外形尺寸 |
|------|----------------------|------|
|------|----------------------|------|

**圆片瓷介电容器
DISC CERAMIC CAPACITOR**

YUYUE

| DC | 温度特性 Temperature Characteristics | | | | | | D | Tmax | F±1.0 | d±0.05 |
|-------------|----------------------------------|----------|-----------|-----------|----------|----------|----|------|-------------------|--------|
| | Y5P (2B) | BN (Y5P) | Y5U (2E) | Z5U (2E) | Y5V (2F) | Z5V (2F) | | | | |
| 3KV | 100~220 | 100~220 | | | 1000 | | 06 | 6.0 | 7.5 or 10.0 | 0.6 |
| | 330~470 | 330~470 | 1000 | 1000 | 2200 | | 07 | | | |
| | 560~680 | 560~680 | | | | | 08 | | | |
| | 820~1000 | 820~1000 | 2200 | 2200 | 3300 | | 09 | | | |
| | | | | | 4700 | | 10 | | | |
| | | | 3300 | 3300 | | | 11 | | | |
| | | | | | | | 12 | | | |
| 6.3KV (6KV) | 100~220 | 100~220 | 470 | 470 | 1000 | | 06 | 6.0 | 10.0 | 0.6 |
| | 330 | 330 | 1000 | 1000 | 1500 | | 07 | | | |
| | 470 | 470 | | | | | 08 | | | |
| | 680 | 680 | 1500~2200 | 1500~2200 | 2200 | | 09 | | | |
| | | | | | 3300 | | 10 | | | |
| | 1000 | 1000 | | | 4700 | | 11 | | | |
| | | | 3300 | 3300 | | | 12 | | | |
| | 1500 | 1500 | | | 6800 | | 13 | | | |
| | | | | | | | 14 | | | |
| | | | 4700 | 4700 | 10000 | | 16 | | | |

注：4KV,5KV 按订货资料生产。Note: 4KV, 5KV can be made on customer's demands.

十、 CT81 型超高压瓷介电容器

CT81 Super High Voltage Ceramic Capacitor

特性 Features

| | |
|-------------------------------------|--|
| 工作温度范围 Operating Temp. Range. | -25℃ to +85℃ |
| 电容量 Capacitance | 在 1KHz±20% , 1.0±0.2Vrms 下测试, 容量在允许偏差范围内 Within the Specified Tolerance at 1KHz±20% , 1.0±0.2Vrms |
| 电容量公差 Capacitance Tolerance | K: ±10%, M: ±20%, Z: +80-20% |
| 损耗 Dissipation Factor(DF) | DF≤2.0% at 1KHz±20% , 1.0±0.2Vrms |
| 额定电压 Rated Voltage(U _R) | ≥7.5KV |
| 耐电压 Dielectric Withstanding Voltage | 1.5U _R for 2 to 5 S (Charge /Discharge current≤50mA) |
| 绝缘电阻(IR)Insulation Resistance | 10000MΩ min at 500VDC and 1 minute electrification |

阻燃绝缘包封 Flame-resistant insulation coating applied

高压电源、整流电路的应用 For High voltage DC power supply application

常规性能 General Specification

电容量规格 Capacitance Specification

| 额定电压 Rated Voltage | 电容量 Capacitance (pF) | | | 外形尺寸 Diameter (mm) | | | |
|--------------------------|----------------------------------|---------|---------|-----------------------|------|-------|--------|
| | 温度特性 Temperature Characteristics | | | | | | |
| DC | Y5P (B) | Y5U (E) | Y5V (F) | D | Tmax | F±1.0 | d±0.05 |
| 7.5KV (8KV) | 100~220 | | | 07 | 8.0 | 10.0 | 0.65 |
| | 330 | | | 08 | | | |
| | 470 | | | 10 | | | |
| | 680 | 1000 | | 12 | | | 0.8 |
| | 1000 | 1500 | | 14 | | | |
| | 1500 | 2200 | | 16 | | | |
| | 2200 | | | 18 | | | |
| 10KV | 100~220 | | | 08 | 9.0 | 12.7 | 0.65 |
| | 330~470 | | | 10 | | | |
| | 680 | 1000 | | 12 | | | |
| | 1000 | 2200 | | 14 | | | |
| | 1500 | | | 16 | | | |
| 15KV | 100~220 | | | 09 | 10.0 | 12.7 | 0.65 |
| | 330 | | | 10 | | | |
| | 470 | | | 12 | | | |
| | 680 | 1000 | 2200 | 14 | | | 0.8 |
| | 820 | 1500 | 3300 | 16 | | | |
| | 1000 | 2200 | 4700 | 18 | | | |

注：也可按顾客要求提供其他超高压陶瓷电容器（7.5KV，10KV，15KV 以外）

NOTE: More CT81 super high voltage capacitors are available upon request except for those list above.

特性 Features

容量大、体积小、可靠性高、电容量稳定，耐高温耐湿性好等。广泛应用于电子精密仪器，以及各种小型电子设备作谐振、耦合、滤波、旁路用。

With special constructive, small volume, and high reliability. The products are applied to Computers and various kinds of electronic equipments.

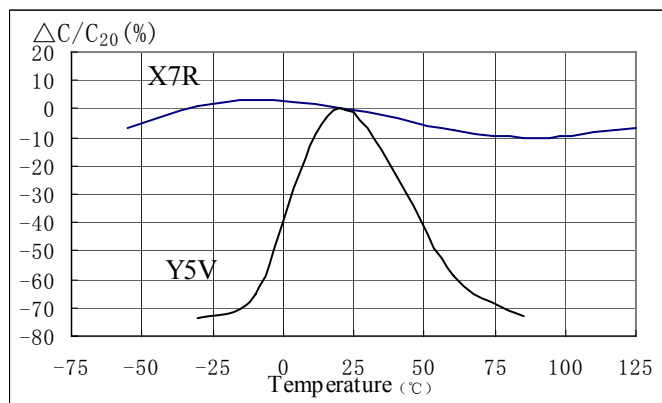
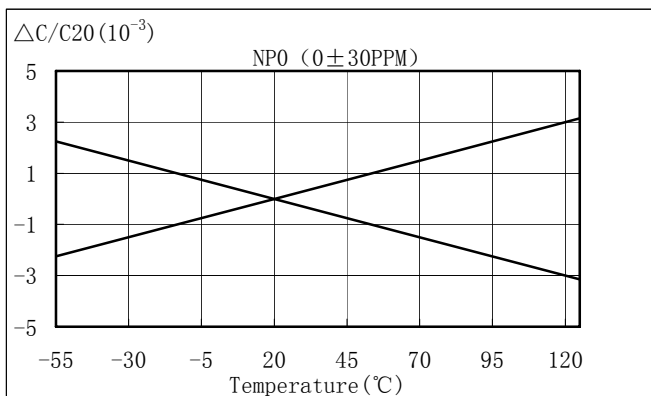
一、品名的表示方法 Part Numbering System

| CT4 | 0805 | X7R | 104 | K | 50V | T |
|--|--|--------------------|------------------------------------|---|--------------------------|-------------------------------------|
| CC4: 1类径向引线电容器 Class 1 radial leads MLC | 尺寸规格 (长×宽(英寸)) | 介质种类 Dielectric | 标称电容(pF) Nominal Capacitance | 误差 Tolerance | 额定电压(V) Rated voltage | 包装方式 package style |
| CT4: 2类径向引线电容器 Class 2 radial leads MLC | 0805 0.08×0.05 1206 0.12×0.06 1210 0.12×0.10 1812 0.18×0.12 2225 0.22×0.35 3035 0.30×0.35 | NP0 X7R Y5V | 102 1000 5R0 5.0 | C ±0.25pF D ±0.50pF J ±5% K ±10% M ±20% S +50-20% Z +80-20% | 25 50 100 | T 盒式编带 Ammo Tape B 散件 BULK |

二、常规性能 General Specification

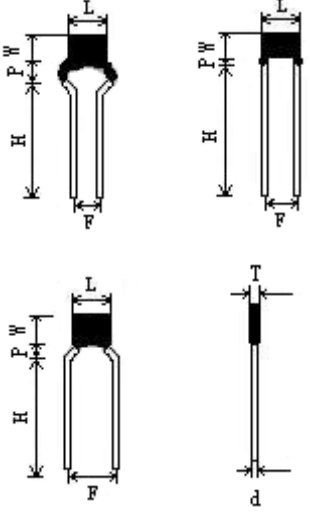
| | |
|-------------------------------------|--|
| 工作温度范围 Operating Temp. Range. | NP0 X7R : -55°C to +125°C Y5V: -30°C to +85°C |
| 电容量 Capacitance | NP0: Within the Specified Tolerance at 1MHz±20% , 1.0±0.2Vrms X7R: 1KHz±20% , 1.0±0.2Vrms Y5V: 1KHz±20% , 0.3±0.2Vrms |
| 损耗 Dissipation Factor(DF) | NP0: DF≤0.15% at 1MHz±20% , 1.0±0.2Vrms X7R: DF≤2.5% at 1KHz±20% , 1.0±0.2Vrms Y5V: DF≤3.5% at 1KHz±20% , 0.3±0.2Vrms |
| 耐电压 Dielectric Withstanding Voltage | 2.5U _R for 2 to 5 S (Charge /Discharge current≤50mA) |
| 绝缘电阻(IR)Insulation Resistance | NP0: 10000MΩ min at rated voltage and 1 minute electrification X7R: 4000MΩ min or R*C≥100S at rated voltage and 1 minute electrification Y5V: 4000MΩ min or R*C≥100S at rated voltage and 1 minute electrification |

三、温度特性 Temperature Characteristics (T.C.)



四、尺寸、容量、额定电压的关系

Relationship with dimension, capacitance and rated voltage

|  | 尺寸代码 | 尺寸 Dimensions (mm) | | | | | 额定电压 | 容量范围 Capacitance (pF) | | |
|---|-----------|--------------------|------|------|------|------|-------------------|-----------------------|---------|-----|
| | Size code | F±0.5 | H±1 | Lmax | Wmax | Tmax | Rated Voltage (v) | NP0 | X7R | Y5V |
| 0805 | 2.5 | 5.0 | 4.2 | 3.8 | 3.8 | 25 | 0R5-332 | 221-105 | 103-105 | |
| | 5.0 | | | | | 50 | 0R5-222 | 221-105 | 103-684 | |
| | 7.5 | | | | | 100 | 0R5-102 | 221-683 | | |
| 1206 | 5.0 | 10.0 | 5.0 | 4.5 | 3.8 | 25 | 0R5-682 | 221-105 | 103-125 | |
| | 7.5 | | | | | 50 | 0R5-472 | 221-105 | 103-105 | |
| | | | | | | 100 | 0R5-392 | 221-683 | | |
| 1210 | 5.0 | 10.0 | 7.6 | 5.5 | 3.8 | 25 | 561-103 | 102-334 | 104-155 | |
| | 7.5 | | | | | 50 | 561-682 | 102-105 | 104-155 | |
| | | | | | | 100 | 561-472 | 102-104 | | |
| 1812 | 5.0 | 10.0 | 8.5 | 8.5 | 3.8 | 25 | 102-153 | 103-474 | 154-335 | |
| | | | | | | 50 | 102-153 | 103-334 | 154-325 | |
| | | | | | | 100 | 102-682 | 103-224 | | |
| 2225 | 7.5 | 10.0 | 10.0 | 9.5 | 4.2 | 25 | 102-223 | 103-105 | 684-475 | |
| | | | | | | 50 | 102-223 | 103-105 | 684-335 | |
| | | | | | | 100 | 102-103 | 103-474 | | |
| 3035 | 7.5 | 10.0 | 12.5 | 10.5 | 4.2 | 25 | 102-104 | 103-225 | 105-106 | |
| | | | | | | 50 | 102-473 | 103-225 | 105-685 | |
| | | | | | | 100 | 102-332 | 103-105 | | |

五、包装数量 Packaging quantity

| | |
|----------------------|---------------|
| 盒式包装 Ammo package | 散件 Bulk |
| 2000pcs | 1000 或 500pcs |

※可根据用户需要包装。 Can be made on customer' s demands.