|  |  |
| --- | --- |
| 低损耗型陶瓷电容器 **Low loss type ceramic capacitors** |  |

|  |  |
| --- | --- |
| **概述**   * 损耗小发热低 * 介质耐压强度高 * 有铅，但符合ROHS标准豁免条款 * 广泛使用于平板电视、监控电路、节能灯、电子整流器及其它高压高频电路   **特性** | **Introduction**   * Low loss, less heat * High dielectric voltage withstanding strength * Have a lead, but comply with ROHS standard exemption clause * Widely used in FPTV, monitoring circuit, CFL, electronic ballast and other high voltage, high frequency circuit   **Specifications** |

|  |  |
| --- | --- |
| 操作温度范围  Operating temperature range | -25°C to +85°C |
| 电容量 (CR)  Capacitance (CR) | Range： 100pF to 0.01uF  Tolerance： K(±10%), M(±20%)  在25±1°C下使用1kHz 1.0Vrms进行测量，在允许偏差范围内。  Measured at 1kHz, 1.0Vrms and 25°C±1°C, within the specified tolerance. |
| 损耗角正切(tanδ)  Tangent of loss angle (tanδ) | Y5P (Bn), ≤0.005; Y5R, ≤0.002  测量条件同“电容量(CR)”  Measured condition see “Capacitance (CR)” |
| 额定电压(UR)，DC  Rated Voltage (UR), DC | 500V ~ 6000V  在两导线间施加1.5倍额定电压再加500V，时间1s到5s（充/放电流小于50mA）。  The capacitor should not be damaged when 1.5 times rated voltage plus 500V is applied between the lead wires for 1 to 5 sec (Charge / Discharge current ≤50mA). |
| 绝缘电阻  Insulation Resistance | >10 000MΩ  在两导线间施加500Vdc进行测量，时间不超过1分钟（如果绝缘电阻达到要求值时，试验可以在更短的时间内结束）。  The insulation resistance should be measured with a DC500V at normal temperature and humidity and less than 1 min. of charging (The test may be terminated in a shorter time, if the required value of insulation resistance is reached). |
| 温度特性  Temperature characteristic | Y5P (Bn), Y5R |

**电容量与尺寸规格表**

**Capacitance and Dimension Chart**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 温度特性 T. C. | | Y5P (Bn) | | | | Y5R | | |
| 额定电压，VDC  Rated Voltage, VDC | | 1kV | 2kV  3kV | 4kV | 6kV | 500V | 1kV | 2kV  3kV |
| 容量 Cap. (pF) |  |
| 100  120  150  180 | |  | E  E | E  E | G  G  G  G |  | E | E |
| 220  270  330  390 | | E  E  E  E | E  E  E  E | G  G  G  G | G  G  G  I | D | E  E  E  E | E  E  E  F |
| 470  560  680  820 | | E  E  E  E | E  E  G  H | I  I  J  K | J  K  K  L | D  D  E  F | E  G  G  I | G  H  I  J |
| 1000  1500  2200  3300 | | F  H  J  K | H  J  L  O | L  M  O  P | M | F  H  J  L | I  J  M  N | L  M  N  P |
| 4700  6800  10000  22000 | | N  P  R | P  R  T |  |  | M | P | T |
| 误差 Tolerance (%) | | ±10 | | | | ±10 | | |
| T, mm max. | | 4.0 | 4.5 | 5.0 | 6.0 | 3.5 | 4.0 | 4.5 |
| F, ±0.8mm | | 5.0 | 5.0/7.5 | 7.5/10 | 10 | 5.0 | 5.0 | 5.0/7.5 |
| D, ±0.05mm | | 0.45 | 0.50 | 0.55 | 0.60 | 0.45 | 0.45 | 0.50 |
| L, mm min. | | 脚长可以根据客户需求订制（没有要求时，脚长不小于20mm）  Lead length by customer requirements (No requirement: 20mm min.) | | | | | | |
| 包封 Coating | | 环氧树脂 Epoxy resin | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 代码 Code | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T |
| D, mm max. | 5.0 | 5.5 | 6.0 | 6.5 | 7.0 | 7.5 | 8.0 | 8.5 | 9.0 | 10.0 | 11.0 | 12.0 | 13.0 | 14.0 | 15.0 | 16.0 | 18.0 | 20.0 | 22.0 | 25.0 |