

# 瓷介电容器 Ceramic Capacitors

## 特性 Feature

- 容量范围 Wide capacitance range from 10pF to 10000pF
- 工作温度 Operating Temperature: -40℃~125℃
- 存储温度 Storage Temperature: -10℃~40℃

## 应用 Applications

瓷介电容器适用于电子设备的电源电路噪声抑制电路中，也可用于天线耦合跨接和旁路电路中。  
These products Can be used in noise suppression of power supply circuit for general electronic equipment, and might be used as antenna coupling, crossing and bypass circuit.

## 使用标准Applicable Standard

| 通过认证<br>APPROVAL                                                                    | 认证组织<br>ORGANIZATION | 标准.<br>SAFTY STANDARDS | 证书<br>CERTIFICATE NO.                              |
|-------------------------------------------------------------------------------------|----------------------|------------------------|----------------------------------------------------|
|    | UL<br>CUL            | UL60384-14             | E154899                                            |
|  | CSA                  | CAN/CSA-E60384-14      | 2405436<br>2405437                                 |
|  | (VDE+ENEC)VDE        | IEC 60384 -14          | 40036393<br>40036246                               |
|  | SEMKO                | EN60384-14             | 1914801                                            |
|  | KTC                  | K60384 - 14            | HU03004-16006A<br>HU03004-16007A<br>HU03004-16008A |
|  | NEMKO                | EN60384-14             | P19223823                                          |
|  | DEMKO                | EN60384-14             | D-03468-M1                                         |
|  | FIMKO                | IEC 60384 -14          | FI 40341                                           |
|  | SEV                  | IEC 60384 -14          | 19.0474<br>19.0475                                 |
|  | CQC                  | IEC 60384 -14          | CQC15001124387<br>CQC15001124387<br>CQC15001127382 |

产品型号Part Number

DCF 331 K 30 Y5P G 6 B L 0 □ □

型号 Type:

DCF: 交流圆片瓷介电容器  
DCG: 超高压瓷片电容器  
DCH: 高压圆片瓷介电容器

电容量 (Capacitance):

470:47pF  
471:470pF  
472:2200pF  
103:10000pF

电 容 量 允 许 偏 差

Capacitance Tolerance:

M=20% Z=+80%-20%  
K=±10% J=±5%

尺寸代码 Size:

见规格详情  
See the specification

温度特性

temperature characteristic:

Y5P, Y5U, Y5V

额定电压 Rated voltage:

N=1KVDC P=2KVDC R=3KVDC  
G=X1 400VAC Y1 250VAC Q=X1 400VAC/Y2 250VAC

脚型 Lead style

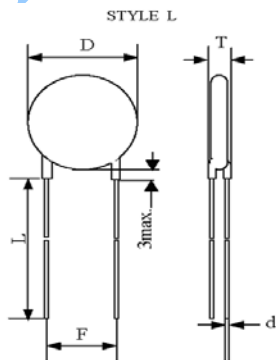


Figure 1-2

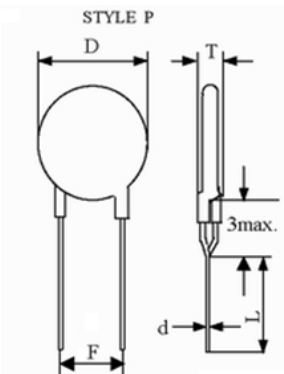


Figure 1-5

电极材料:

Electrode Material

Copper or Silver electrode

内部管理代码

Interior managing

位引线间距 Lead spacing:

5=5.0mm 7=7.5mm 0=10mm

引线式样 Lead style:

L、P  
见引线形状 see the lead style  
Figure1-2 and figure 1-5

位引线长度/包装方法/

Lead length/package:

B=26.0±1.0mm, L=2.3±0.3mm  
D=4.5±0.5mm, J=3.2±0.3mm,  
W=3.4±0.3mm, K=2.8±0.5mm,  
F=12.7mm 编带/扇折, V=15.0mm 编带/扇折

引线直径 Lead diameter:

CP 线:  
6=0.55±0.05mm 8=0.78±0.05mm

规格Specification

| SHM 产品代码<br>SHM Part No. | 额定电压<br>Rated voltage<br>(VAC) | 标称容量<br>Nominal capacitance<br>(pF) | 电容量允许偏差范围<br>Tolerance (%) | 温度特性<br>Temperature Characteristic | 产品尺寸(mm)           |                    |               |                |           |
|--------------------------|--------------------------------|-------------------------------------|----------------------------|------------------------------------|--------------------|--------------------|---------------|----------------|-----------|
|                          |                                |                                     |                            |                                    | 直径<br>Dmax<br>(mm) | 厚度<br>Tmax<br>(mm) | 引线间距<br>F(mm) | 引线直径<br>d (mm) | 散件/<br>编带 |
| DCF101K26Y5PG6UP0A0      | Y1 250~                        | 100                                 | ±10%                       | Y5P (B)                            | 6.8                | 6.0                | 10.0±1.0      | 0.55±0.05      | 编带        |
| DCF101K26Y5PG6WP0A0      | Y1 250~                        | 100                                 | ±10%                       | Y5P (B)                            | 6.8                | 6.0                | 10.0±1.0      | 0.55±0.05      | 散件        |
| DCF101K26Y5PQ6BL7A0      | Y2 250~                        | 100                                 | ±10%                       | Y5P (B)                            | 6.8                | 5.0                | 7.5±1.0       | 0.55±0.05      | 散件        |
| DCF101K26Y5PQ6UL7A0      | Y2 250~                        | 100                                 | ±10%                       | Y5P (B)                            | 6.8                | 5.0                | 7.5±1.0       | 0.55±0.05      | 编带        |
| DCF101K26Y5PQ6WL7A0      | Y2 250~                        | 100                                 | ±10%                       | Y5P (B)                            | 6.8                | 5.0                | 7.5±1.0       | 0.55±0.05      | 散件        |
| DCF101K30Y5PG6JP3AB      | Y1 250~                        | 100                                 | ±10%                       | Y5P (B)                            | 7.8                | 6.0                | 12.5±1.0      | 0.55±0.05      | 散件        |
| DCF102M26Y5VQ60L5A0      | Y2 250~                        | 1000                                | ±20%                       | Y5V (F)                            | 6.8                | 5.0                | 5±1.0         | 0.55±0.05      | 散件        |
| DCF102M26Y5VQ60L5A1      | Y2 250~                        | 1000                                | ±20%                       | Y5V (F)                            | 6.8                | 5.0                | 5±1.0         | 0.55±0.05      | 散件        |
| DCF102M26Y5VQ64L7A0      | Y2 250~                        | 1000                                | ±20%                       | Y5V (F)                            | 6.8                | 5.0                | 7.5±1.0       | 0.55±0.05      | 散件        |
| DCF102M26Y5VQ6BL7A0      | Y2 250~                        | 1000                                | ±20%                       | Y5V (F)                            | 6.8                | 5.0                | 7.5±1.0       | 0.55±0.05      | 散件        |
| DCF102M26Y5VQ6UL7A0      | Y2 250~                        | 1000                                | ±20%                       | Y5V (F)                            | 6.8                | 5.0                | 7.5±1.0       | 0.55±0.05      | 散件        |
| DCF102M26Y5VQ6VP7A0      | Y2 250~                        | 1000                                | ±20%                       | Y5V (F)                            | 6.8                | 5.0                | 7.5±1.0       | 0.55±0.05      | 编带        |
| DCF102M26Y5VQ6WL0A0      | Y2 250~                        | 1000                                | ±20%                       | Y5V (F)                            | 6.8                | 5.0                | 10.0±1.0      | 0.55±0.05      | 散件        |
| DCF102M26Y5VQ6WL7A0      | Y2 250~                        | 1000                                | ±20%                       | Y5V (F)                            | 6.8                | 5.0                | 7.5±1.0       | 0.55±0.05      | 散件        |
| DCF102M30Y5UQ6BK7A0      | Y2 250~                        | 1000                                | ±20%                       | Y5U (E)                            | 7.8                | 5.0                | 7.5±1.0       | 0.55±0.05      | 散件        |
| DCF102M30Y5UQ6BL7A0      | Y2 250~                        | 1000                                | ±20%                       | Y5U (E)                            | 7.8                | 5.0                | 7.5±1.0       | 0.55±0.05      | 散件        |
| DCF102M30Y5UQ6UK7BB      | Y2 250~                        | 1000                                | ±20%                       | Y5U (E)                            | 7.8                | 5.0                | 7.5±1.0       | 0.55±0.05      | 编带        |
| DCF102M30Y5UQ6UP7A0      | Y2 250~                        | 1000                                | ±20%                       | Y5U (E)                            | 7.8                | 5.0                | 7.5±1.0       | 0.55±0.05      | 编带        |
| DCF102M30Y5UQ6VL7A0      | Y2 250~                        | 1000                                | ±20%                       | Y5U (E)                            | 7.8                | 5.0                | 7.5±1.0       | 0.55±0.05      | 编带        |
| DCF102M30Y5UQ6VL7BU      | Y2 250~                        | 1000                                | ±20%                       | Y5U (E)                            | 7.8                | 5.0                | 7.5±1.0       | 0.55±0.05      | 编带        |
| DCF102M30Y5UQ6WL7A6      | Y2 300~                        | 1000                                | ±20%                       | Y5U (E)                            | 7.8                | 5.0                | 7.5±1.0       | 0.55±0.05      | 散件        |
| DCF102M30Y5UQ7DK7A0      | Y2 250~                        | 1000                                | ±20%                       | Y5U (E)                            | 7.8                | 5.0                | 7.5±1.0       | 0.8±0.05       | 散件        |
| DCF102M30Y5UQDBL7E9      | Y2 300~                        | 1000                                | ±20%                       | Y5U (E)                            | 7.8                | 5.0                | 7.5±1.0       | 0.8±0.05       | 散件        |

|                     |         |       |      |         |      |     |          |           |    |
|---------------------|---------|-------|------|---------|------|-----|----------|-----------|----|
| DCF102M34Y5UG64L0A0 | Y1 250~ | 1000  | ±20% | Y5U (E) | 9.0  | 6.0 | 10.0±1.0 | 0.55±0.05 | 散件 |
| DCF102M34Y5UG65L0A0 | Y1 250~ | 1000  | ±20% | Y5U (E) | 9.0  | 6.0 | 10.0±1.0 | 0.55±0.05 | 散件 |
| DCF102M34Y5UG67L0AB | Y1 250~ | 1000  | ±20% | Y5U (E) | 9.0  | 6.0 | 10.0±1.0 | 0.55±0.05 | 散件 |
| DCF102M34Y5UG68L0A0 | Y1 250~ | 1000  | ±20% | Y5U (E) | 9.0  | 6.0 | 10.0±1.0 | 0.55±0.05 | 散件 |
| DCF102M34Y5UG6JK0A0 | Y1 250~ | 1000  | ±20% | Y5U (E) | 9.0  | 6.0 | 10.0±1.0 | 0.55±0.05 | 散件 |
| DCF102M34Y5UG6JL0AB | Y1 250~ | 1000  | ±20% | Y5U (E) | 9.0  | 6.0 | 10.0±1.0 | 0.55±0.05 | 散件 |
| DCF102M34Y5UG6JL0AJ | Y1 500~ | 1000  | ±20% | Y5U (E) | 9.0  | 6.0 | 10.0±1.0 | 0.55±0.05 | 散件 |
| DCF102M34Y5UG6JP0EQ | Y1 400~ | 1000  | ±20% | Y5U (E) | 9.0  | 6.0 | 10.0±1.0 | 0.55±0.05 | 散件 |
| DCF102M34Y5UG6KL0L0 | Y1 400~ | 1000  | ±20% | Y5U (E) | 9.0  | 6.0 | 10.0±1.0 | 0.55±0.05 | 散件 |
| DCF102M34Y5UG6UL0A0 | Y1 250~ | 1000  | ±20% | Y5U (E) | 9.0  | 6.0 | 10.0±1.0 | 0.55±0.05 | 编带 |
| DCF102M34Y5UG6UP0A0 | Y1 250~ | 1000  | ±20% | Y5U (E) | 9.0  | 6.0 | 10.0±1.0 | 0.55±0.05 | 编带 |
| DCF102M34Y5UG6VL0L0 | Y1 400~ | 1000  | ±20% | Y5U (E) | 9.0  | 6.0 | 10.0±1.0 | 0.55±0.05 | 编带 |
| DCF102M34Y5UG6VP0L0 | Y1 400~ | 1000  | ±20% | Y5U (E) | 9.0  | 6.0 | 10.0±1.0 | 0.55±0.05 | 编带 |
| DCF102M34Y5UG6WL0A0 | Y1 250~ | 1000  | ±20% | Y5U (E) | 9.0  | 6.0 | 10.0±1.0 | 0.55±0.05 | 散件 |
| DCF102M34Y5UG6WL0A2 | Y1 250~ | 1000  | ±20% | Y5U (E) | 9.0  | 6.0 | 10.0±1.0 | 0.55±0.05 | 散件 |
| DCF102M34Y5UG6WL0A3 | Y1 250~ | 1000  | ±20% | Y5U (E) | 9.0  | 6.0 | 10.0±1.0 | 0.55±0.05 | 散件 |
| DCF102M34Y5UG6WL0L0 | Y1 400~ | 1000  | ±20% | Y5U (E) | 9.0  | 6.0 | 10.0±1.0 | 0.55±0.05 | 散件 |
| DCF102M34Y5UG6WP0A0 | Y1 250~ | 1000  | ±20% | Y5U (E) | 9.0  | 6.0 | 10.0±1.0 | 0.55±0.05 | 散件 |
| DCF102M34Y5UGEVL0L0 | Y1 400~ | 1000  | ±20% | Y5U (E) | 9.0  | 6.0 | 10.0±1.0 | 0.58±0.05 | 散件 |
| DCF102M34Y5UGEWL0A0 | Y1 250~ | 1000  | ±20% | Y5U (E) | 9.0  | 6.0 | 10.0±1.0 | 0.58±0.05 | 散件 |
| DCF103M56Y5VQ64K0A0 | Y2 250~ | 10000 | ±20% | Y5V (F) | 14.7 | 5.0 | 10.0±1.0 | 0.55±0.05 | 散件 |
| DCF103M56Y5VQ64K7A0 | Y2 250~ | 10000 | ±20% | Y5V (F) | 14.7 | 5.0 | 7.5±1.0  | 0.55±0.05 | 散件 |
| DCF103M56Y5VQ6DK0A0 | Y2 250~ | 10000 | ±20% | Y5V (F) | 14.7 | 5.0 | 10.0±1.0 | 0.55±0.05 | 散件 |
| DCF103M56Y5VQ6JL7A0 | Y2 250~ | 10000 | ±20% | Y5V (F) | 14.7 | 5.0 | 7.5±1.0  | 0.55±0.05 | 散件 |
| DCF103M56Y5VQ6UL0A0 | Y2 250~ | 10000 | ±20% | Y5V (F) | 14.7 | 5.0 | 10.0±1.0 | 0.55±0.05 | 编带 |

电性能指标 Electrical Performance

| 序号<br>No. | 项目名称 Item                             |       | 技术要求 Specification     |                                |
|-----------|---------------------------------------|-------|------------------------|--------------------------------|
| 1         | 容量和误差 C                               |       | @25℃, 1 kHz and 1 Vrms | 参照规格表<br>See the specification |
| 2         | 损耗系数 DF                               |       | @25℃, 1 kHz and 1 Vrms | 2.5% max.                      |
| 3         | 绝缘电阻 IR                               |       | @500 VDC, 60S          | 10000MΩmin                     |
| 4         | 耐电压<br>Rate<br>Voltage                | X1/Y2 | 2600Vrms               | 无击穿或飞弧。<br>No visible damage   |
|           |                                       | X1/Y1 | 4000Vrms               |                                |
| 5         | 温度特性<br>temperature<br>characteristic | Y5P   |                        | ±10%                           |
|           |                                       | Y5U   |                        | +22% to -56%                   |
|           |                                       | Y5V   |                        | +22% to -82%                   |

标志 Marking

例如 e. g

| Y1 电容器                                                                                                                       |             |
|------------------------------------------------------------------------------------------------------------------------------|-------------|
| 正面                                                                                                                           | 反面          |
| <div>SHM<br/>X1 400~<br/>Y1 250~<br/>E 102M<br/>F</div> <div>或</div> <div>SHM<br/>X1 400~<br/>Y1 400~<br/>E 102M<br/>F</div> | <div></div> |

| Y2 电容器                                                                                                                       |             |
|------------------------------------------------------------------------------------------------------------------------------|-------------|
| 正面                                                                                                                           | 反面          |
| <div>SHM<br/>X1 400~<br/>Y2 250~<br/>E 102M<br/>F</div> <div>或</div> <div>SHM<br/>X1 400~<br/>Y2 300~<br/>E 102M<br/>F</div> | <div></div> |