

# 瓷介电容器 Ceramic Capacitors









## 特性 Feature

- 容量范围 Wide capacitance range from 100pF 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)VD<br>E    | 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

## 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、J、  
见引线形状 see the lead style  
Figure1-2 and figure 1-3

## 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

## 脚型 Lead style



Figure 1-2



Figure 1-3

# 规格Specification

| SHM 产品代码<br>SHM Part No. | 额定电压<br>Rated voltage<br>(KV) | 标称容量<br>Nominal capacitance<br>(pF) | 电容量<br>允许偏差范围<br>Tolerance<br>(%) | 温度特性<br>Temperature<br>Characteristic | 产品尺寸(mm)           |                    |                   |                |                             |
|--------------------------|-------------------------------|-------------------------------------|-----------------------------------|---------------------------------------|--------------------|--------------------|-------------------|----------------|-----------------------------|
|                          |                               |                                     |                                   |                                       | 直径<br>Dmax<br>(mm) | 厚度<br>Tmax<br>(mm) | 引线间<br>距<br>F(mm) | 引线直径<br>d (mm) | 引线长<br>度 L<br>(mm)/编<br>带方式 |
| DCF101K26Y5PQ6BL7A0      | Y2 300~                       | 100                                 | ±10%                              | Y5P (B)                               | 6.8                | 5.0                | 7.5±1.0           | 0.55±0.05      | 25min.                      |
| DCF221K26Y5PQ6BL7A0      | Y2 300~                       | 220                                 | ±10%                              | Y5P (B)                               | 6.8                | 5.0                | 7.5±1.0           | 0.55±0.05      | 25min.                      |
| DCF471K26Y5PQ6BL7A0      | Y2 300~                       | 470                                 | ±10%                              | Y5P (B)                               | 6.8                | 5.0                | 7.5±1.0           | 0.55±0.05      | 25min.                      |
| DCF681K26Y5PQ6BL7A0      | Y2 300~                       | 680                                 | ±10%                              | Y5P (B)                               | 6.8                | 5.0                | 7.5±1.0           | 0.55±0.05      | 25min.                      |
| DCF102K36Y5PQ6BL7A0      | Y2 300~                       | 1000                                | ±10%                              | Y5P (B)                               | 9.8                | 5.0                | 7.5±1.0           | 0.55±0.05      | 25min.                      |
| DCF102M26Y5VQ6BL7A0      | Y2 300~                       | 1000                                | ±20%                              | Y5V (F)                               | 6.8                | 5.0                | 7.5±1.0           | 0.55±0.05      | 25min.                      |
| DCF102M34Y5UQ6BL7A0      | Y2 300~                       | 1000                                | ±20%                              | Y5U (E)                               | 9.0                | 5.0                | 7.5±1.0           | 0.55±0.05      | 25min.                      |
| DCF222M34Y5VQ6BL7A0      | Y2 300~                       | 2200                                | ±20%                              | Y5V (F)                               | 9.0                | 5.0                | 7.5±1.0           | 0.55±0.05      | 25min.                      |
| DCF222M39Y5UQ6BL7A0      | Y2 300~                       | 2200                                | ±20%                              | Y5U (E)                               | 10.5               | 5.0                | 7.5±1.0           | 0.55±0.05      | 25min.                      |
| DCF332M36Y5VQ6BL7A0      | Y2 300~                       | 3300                                | ±20%                              | Y5V (F)                               | 9.8                | 5.0                | 7.5±1.0           | 0.55±0.05      | 25min.                      |
| DCF332M46Y5UQ6BL7A0      | Y2 300~                       | 3300                                | ±20%                              | Y5U (E)                               | 12.3               | 5.0                | 7.5±1.0           | 0.55±0.05      | 25min.                      |
| DCF472M39Y5VQ6BL7A0      | Y2 300~                       | 4700                                | ±20%                              | Y5V (F)                               | 10.5               | 5.0                | 7.5±1.0           | 0.55±0.05      | 25min.                      |
| DCF103M56Y5VQ6BL7A0      | Y2 300~                       | 10000                               | ±20%                              | Y5V (F)                               | 14.7               | 5.0                | 7.5±1.0           | 0.55±0.05      | 25min.                      |
| DCF101K26Y5PG6BL0A0      | Y1 400~                       | 100                                 | ±10%                              | Y5P (B)                               | 6.8                | 6.0                | 10.0±1.0          | 0.55±0.05      | 25min.                      |
| DCF221K26Y5PG6BL0A0      | Y1 400~                       | 220                                 | ±10%                              | Y5P (B)                               | 6.8                | 6.0                | 10.0±1.0          | 0.55±0.05      | 25min.                      |
| DCF331K30Y5PG6BL0A0      | Y1 400~                       | 330                                 | ±10%                              | Y5P (B)                               | 7.8                | 6.0                | 10.0±1.0          | 0.55±0.05      | 25min.                      |
| DCF471K34Y5PG6BL0A0      | Y1 400~                       | 470                                 | ±10%                              | Y5P (B)                               | 9.0                | 6.0                | 10.0±1.0          | 0.55±0.05      | 25min.                      |
| DCF102M34Y5UG6BL0A0      | Y1 400~                       | 1000                                | ±20%                              | Y5U (E)                               | 9.0                | 6.0                | 10.0±1.0          | 0.55±0.05      | 25min.                      |
| DCF152M36Y5UG6BL0A0      | Y1 400~                       | 1500                                | ±20%                              | Y5U (E)                               | 9.8                | 6.0                | 10.0±1.0          | 0.55±0.05      | 25min.                      |
| DCF222M34Y5VG6BL0A0      | Y1 400~                       | 2200                                | ±20%                              | Y5V (F)                               | 9.0                | 6.0                | 10.0±1.0          | 0.55±0.05      | 25min.                      |
| DCF222M39Y5UG6BL0A0      | Y1 400~                       | 2200                                | ±20%                              | Y5U (E)                               | 10.5               | 6.0                | 10.0±1.0          | 0.55±0.05      | 25min.                      |
| DCF332M39Y5VG6BL0A0      | Y1 400~                       | 3300                                | ±20%                              | Y5V (F)                               | 10.5               | 6.0                | 10.0±1.0          | 0.55±0.05      | 25min.                      |
| DCF472M46Y5VG6BL0A0      | Y1 400~                       | 4700                                | ±20%                              | Y5V (F)                               | 12.3               | 6.0                | 10.0±1.0          | 0.55±0.05      | 25min.                      |

## 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°C, 1 kHz and 1 Vrms | 参照规格表<br>See the specification |
| 2         | 损耗系数 DF                               |       | @25°C, 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

| 正面  | 反面   |
|---|--|
|  |  |

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