

# DCT 型高介电常数圆片瓷介电容器 (II类)

## TYPE DCT HIGH DIELECTRIC CONSTANT DISC CERAMIC CAPACITORS (Class II)

### 特性 Feature

- 容量范围 Wide capacitance range from 100pF to 10000pF
- 工作温度 Operating Temperature:  $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$
- 存储温度 Storage Temperature:  $-10^{\circ}\text{C} \sim 40^{\circ}\text{C}$

### 应用 Applications

DCT 型圆片瓷介电容器的特点: 介电常数高, 容量大, 体积小。适用于旁路、耦合、隔直流和滤波等电路中。

Type DCT disc capacitors have characteristics such as higher dielectric constant, higher Capacitance, smaller size. They are suitably used in bypass circuit, coupling circuit, filter circuit, and isolating circuit..

### 产品型号 Part Number

DCT 101 K 20 Y5P F 6 F J 5 □□

型号 Type: \_\_\_\_\_

DCT: 高介电常数圆片瓷介电容器

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: \_\_\_\_\_

F=50VDC H=100VDC

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=20min. mm, 6=6.0±0.5mm  
D=4.5±0.5mm, 8=8.0±0.5mm,  
W=3.4±0.3mm, A=7.0±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 5=0.48±0.05mm

## 脚型 Lead style

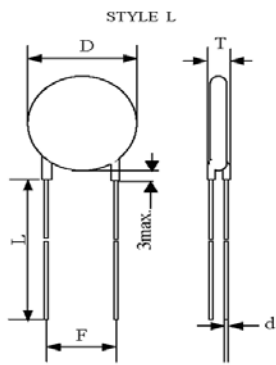


Figure 1-2

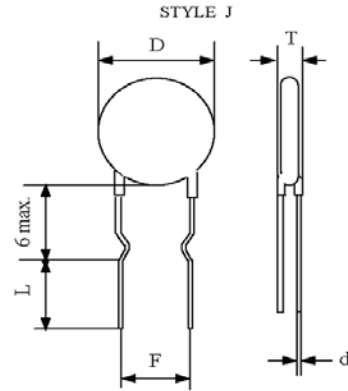


Figure 1-3

## 规格 Specification

SHM 产品代码 SHM Part No.	额定电压 Rated voltage (kV)	标称容量 Nominal capacitance (pF)	电容量允许 偏差范围 Tolerance (%)	温度特性 Temperature Characteristic	产品尺寸(mm)				
					直径 Dmax (mm)	厚度 Tmax (mm)	引线 间距 F(mm)	引线直径 d (mm)	散件/ 编带
DCT101K20Y5PF6FJ5A0	50VDC	100	±10%	Y5P	5.0	3.0	5.0	0.55±0.05	编带
<b>DCT101K20Y5PF6FJ5BU</b>	<b>50VDC</b>	<b>100</b>	<b>±10%</b>	<b>Y5P</b>	<b>5.0</b>	<b>3.0</b>	<b>5.0</b>	<b>0.55±0.05</b>	<b>编带</b>
DCT101K20Y5PF6FL5A0	50VDC	100	±10%	Y5P	5.0	3.0	5.0	0.55±0.05	编带
DCT102K20Y5PF6FJ5A0	50VDC	1000	±10%	Y5P	5.0	3.0	5.0	0.55±0.05	编带
DCT102K20Y5PFEFJ5A0	50VDC	1000	±10%	Y5P	5.0	3.0	5.0	0.58±0.05 镀锡铜线	编带
DCT102K20Y5PFEFL5A0	50VDC	1000	±10%	Y5P	5.0	3.0	5.0	0.58±0.05 镀锡铜线	编带
DCT102K20Y5PH6FL5A0	100VDC	1000	±10%	Y5P	5.0	3.0	5.0	0.55±0.05	编带
DCT102M20Y5UF6FJ5A0	50VDC	1000	±20%	Y5U	5.0	3.0	5.0	0.55±0.05	编带
<b>DCT103M22Y5UF6AJ5A0</b>	<b>50VDC</b>	<b>10000</b>	<b>±20%</b>	<b>Y5U</b>	<b>5.5</b>	<b>3.0</b>	<b>5.0</b>	<b>0.55±0.05</b>	<b>散件</b>
DCT103M22Y5UF6FJ5A0	50VDC	10000	±20%	Y5U	5.5	3.0	5.0	0.55±0.05	编带
<b>DCT103Z22Y5VF6BL5A0</b>	<b>50VDC</b>	<b>10000</b>	<b>+80% to -20%</b>	<b>Y5V</b>	<b>5.5</b>	<b>3.0</b>	<b>5.0</b>	<b>0.55±0.05</b>	<b>散件</b>
DCT103Z22Y5VF6FJ5A0	50VDC	10000	+80% to -20%	Y5V	5.5	3.0	5.0	0.55±0.05	编带
DCT103Z22Y5VF6FL5A0	50VDC	10000	+80% to -20%	Y5V	5.5	3.0	5.0	0.55±0.05	编带
DCT151K20Y5PF6FJ5A0	50VDC	150	±10%	Y5P	5.0	3.0	5.0	0.55±0.05	编带

DCT152K20Y5PF6FJ5A0	50VDC	1500	±10%	Y5P	5.0	3.0	5.0	0.55±0.05	编带
DCT221K20Y5PF6FJ5A0	50VDC	220	±10%	Y5P	5.0	3.0	5.0	0.55±0.05	编带
DCT221K20Y5PFEFJ5A0	50VDC	220	±10%	Y5P	5.0	3.0	5.0	0.58±0.05 镀锡铜线	编带
DCT222K22Y5PF6FJ5A0	50VDC	2200	±10%	Y5P	5.5	3.0	5.0	0.55±0.05	编带
<b>DCT222K22Y5PF6FJ5B8</b>	<b>50VDC</b>	<b>2200</b>	<b>±10%</b>	<b>Y5P</b>	<b>5.5</b>	<b>3.0</b>	<b>5.0</b>	<b>0.55±0.05</b>	<b>编带</b>
DCT331K20Y5PF6FJ5A0	50VDC	330	±10%	Y5P	5.0	3.0	5.0	0.55±0.05	编带
DCT471K20Y5PF6FJ5A0	50VDC	470	±10%	Y5P	5.0	3.0	5.0	0.55±0.05	编带
DCT471K20Y5PF6FL5A0	50VDC	470	±10%	Y5P	5.0	3.0	5.0	0.55±0.05	编带
DCT471K20Y5PF6FL5BU	50VDC	470	±10%	Y5P	5.0	3.0	5.0	0.55±0.05	编带
DCT471K20Y5PFEFJ5A0	50VDC	470	±10%	Y5P	5.0	3.0	5.0	0.58±0.05 镀锡铜线	编带
DCT471K20Y5PH6FJ5A0	100VDC	470	±10%	Y5P	5.0	3.0	5.0	0.55±0.05	编带
DCT472K30Y5PF6FJ5A0	50VDC	4700	±10%	Y5P	7.5	3.0	5.0	0.55±0.05	编带
DCT472M20Y5UF6FJ5A0	50VDC	4700	±20%	Y5U	5.0	3.0	5.0	0.55±0.05	编带
DCT472Z20Y5VF6FJ5A0	50VDC	4700	+80% to -20%	Y5V	5.0	3.0	5.0	0.55±0.05	编带
DCT561K20Y5PF6FJ5A0	50VDC	560	±10%	Y5P	5.0	3.0	5.0	0.55±0.05	编带
DCT681K20Y5PF6FJ5A0	50VDC	680	±10%	Y5P	5.0	3.0	5.0	0.55±0.05	编带

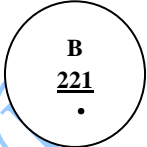
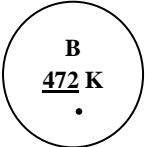

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## 电性能指标 Electrical Performance

序号 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 See the specification	
2	损耗系数 DF	@25°C, 1 kHz and 1 Vrms	2.5% max. (Y5P, Y5U&Z5U) 3.5% max. (Y5V& Z5V)	
3	绝缘电阻 IR	@额定电压 VDC,60S	10000MΩmin	
4	耐电压 Rate Voltage	50VDC	300% 额定电压	无击穿或飞弧。 No visible damage
		100VDC		
5	温度特性 temperature characteristic		X7R/YR	±15%
			Y5P	±10%
			Y5U	+22% to -56%
			Y5V	+22% to -82%

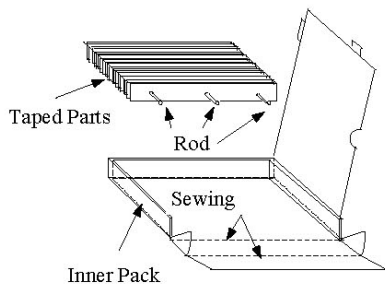
## 标志 Marking

例如 e.g

	22#号产品以下 ≤ 22#	26#号产品以下 =26#	30#产品以上 ≥30#
正面 Front			
反面 Back	空白 Blank	空白 Blank	空白 Blank

# 编带样式 Taping style

## TAPING STYLE F



Symbol	Dimension(mm)
P0	12.7±0.2
P	12.7±1.0
F	5.0±0.5
P1	3.85±0.4
P2	6.35±0.4
H0	16.0±0.5* <sup>1</sup>
H	20.0±0.5* <sup>2</sup>
W	18.0±0.5
W0	8.0min.
W1	9.0±0.3
W2	3.0max.
t	0.7±0.2
D	To comply with individual sheet
D0	4±0.2
d	To comply with individual sheet
l	2.0max.
T	To comply with individual sheet
ΔS	1.0 max.
Δh	1.0 max.

1. \*1 打弯脚型以H0为准。

For kink lead only.

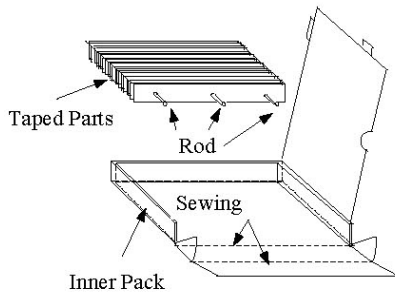
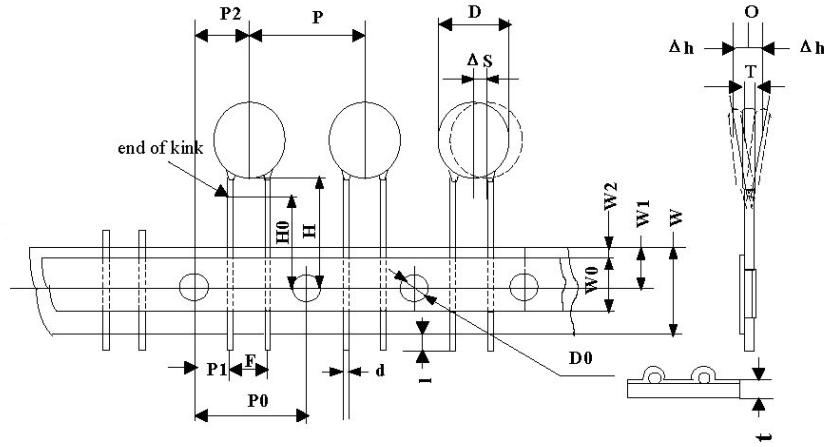
2. \*2 直脚产品以H为准。

For straight lead only.

Figure 2

备注 1 DCT222K22Y5PF6FJ5B8 的编带

## TAPING STYLE F



Symbol	Dimension(mm)
P0	12.7±0.2
P	12.7±1.0
F	5.0±0.5
P1	3.85±0.4
P2	6.35±0.4
H0	17+1.0/-0.5
H	20.0±0.5 <sup>*2</sup>
W	18.0±0.5
W0	8.0min.
W1	9.0±0.3
W2	3.0max.
t	0.7±0.2
D	To comply with individual sheet
D0	4±0.2
d	To comply with individual sheet
l	2.0max.
T	To comply with individual sheet
ΔS	1.0 max.
Δh	1.0 max.

1. \*1 打弯脚型以H0为准。

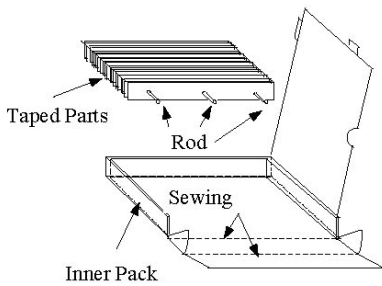
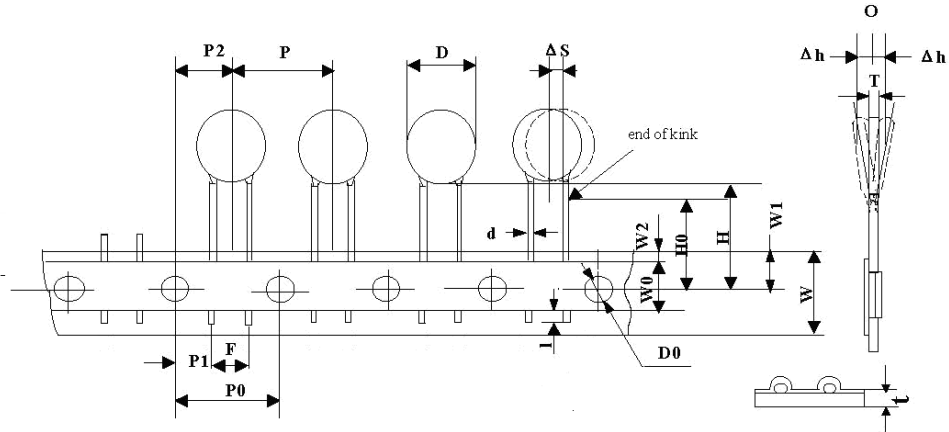
For kink lead only.

2. \*2 直脚产品以H为准。

For straight lead only.

Figure 2

### TAPING STYLE F



Symbol	Dimension(mm)
P0	12.7±0.2
P	12.7±1.0
F	5.0±0.5
P1	3.85±0.4
P2	6.35±0.4
H0	16.0±0.5*1
H	20.0±0.5*2
W	18.0±0.5
W0	8.0min.
W1	9.0±0.3
W2	3.0max.
t	0.7±0.2
D	To comply with individual sheet
D0	4±0.2
d	To comply with individual sheet
L	2.0max.
T	To comply with individual sheet
Δ S	1.0 max.
Δ h	1.0 max.

1. \*1 打弯脚型以H0为准。

For kink lead only.

2. \*2 直脚产品以H为准。

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Figure 2