

DCS 型半导体圆片瓷介电容器

TYPE DCS SEMI-CONDUCTIVE DISC CERAMIC CAPACITORS

特性 Feature

- 容量范围 Wide capacitance range from 100pF to 1000000pF
- 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

DCS 型半导体圆片瓷介电容器的陶瓷芯片属于表面层半导体结构，其电容器具有大容量、小体积等特点，适用于滤波、旁路、耦合等电路中。

This disc ceramic capacitors belong to surface layer semi-conductive construction, have characteristics such as higher capacitance, small size etc., They are best suited for use in filter circuit, bypass circuit and coupling circuit etc..

产品型号 Part Number

DCS 104 M 26 Y5V F 6 B L 5 □□

型号 Type: _____
DCS: 半导体圆片瓷介电容器

容量 (Capacitance): _____
470:47pF
471:470pF
472:2200pF
103:10000pF

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

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

引线长度/包装方法/
Lead length/package:
B=20min. mm, 6=6.0±0.5mm
0=10.0±0.5mm, 8=8.0±0.5mm,
W=3.4±0.3mm, A=7.0±0.5mm, 3=3.0±0.3mm
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 =0.48±0.05mm

脚型 Lead style

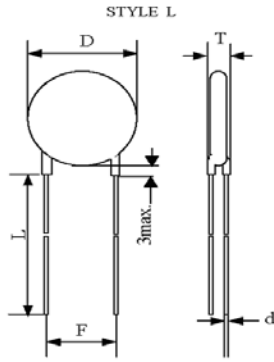


Figure 1-2

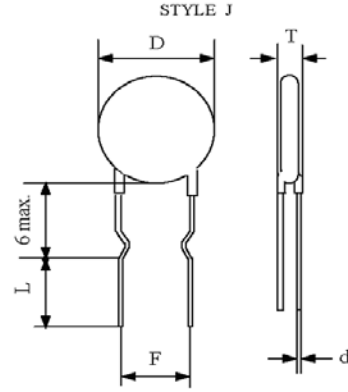


Figure 1-3

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 |
| DCS103K20Y5PF6FJ5A0 | 50VDC | 10000 | ±10% | Y5P | 5.0 | 4.0 | 5.0 | 0.55±0.05 | 编带 |
| DCS103M20Y5UF5AL5A0 | 50VDC | 10000 | ±20% | Y5U | 5.0 | 4.0 | 5.0 | 0.48±0.05 | 散件 |
| DCS103M20Y5VF6FL5A0 | 50VDC | 10000 | ±20% | Y5V | 5.0 | 4.0 | 5.0 | 0.55±0.05 | 编带 |
| DCS104M26Y5UF50L5A0 | 50VDC | 100000 | ±20% | Y5U | 6.5 | 4.0 | 5.0 | 0.48±0.05 | 散件 |
| DCS104M26Y5UF5BL5A0 | 50VDC | 100000 | ±20% | Y5U | 6.5 | 4.0 | 5.0 | 0.48±0.05 | 散件 |
| DCS104M26Y5UF5WL5A0 | 50VDC | 100000 | ±20% | Y5U | 6.5 | 4.0 | 5.0 | 0.48±0.05 | 散件 |
| DCS104M26Y5UF6AJ5A0 | 50VDC | 100000 | ±20% | Y5U | 6.5 | 4.0 | 5.0 | 0.55±0.05 | 散件 |
| DCS104M26Y5UF6FJ5A0 | 50VDC | 100000 | ±20% | Y5U | 6.5 | 4.0 | 5.0 | 0.55±0.05 | 散件 |
| DCS104M26Y5UH6FJ5A0 | 100VDC | 100000 | ±20% | Y5U | 6.5 | 4.0 | 5.0 | 0.55±0.05 | 编带 |
| DCS104M26Y5VF6FJ5A0 | 50VDC | 100000 | ±20% | Y5V | 6.5 | 4.0 | 5.0 | 0.55±0.05 | 编带 |
| DCS104M26Y5VFEFL5A0 | 50VDC | 100000 | ±20% | Y5V | 6.5 | 4.0 | 5.0 | 0.58±0.05 镀锡铜线 | 编带 |
| DCS104Z26Y5VF56L5A0 | 50VDC | 100000 | +80% to -20% | Y5V | 6.5 | 4.0 | 5.0 | 0.48±0.05 | 散件 |
| DCS104Z26Y5VF58L5A0 | 50VDC | 100000 | +80% to -20% | Y5V | 6.5 | 4.0 | 5.0 | 0.48±0.05 | 散件 |
| DCS104Z26Y5VF5BL5A0 | 50VDC | 100000 | +80% to -20% | Y5V | 6.5 | 4.0 | 5.0 | 0.48±0.05 | 散件 |

| | | | | | | | | | |
|---------------------|--------|--------|-----------------|-----|-----|-----|-----|-------------------|----|
| DCS104Z26Y5VF6BL5A0 | 50VDC | 100000 | +80% to -20% | Y5V | 6.5 | 4.0 | 5.0 | 0.55±0.05 | 散件 |
| DCS104Z26Y5VF6FJ5A0 | 50VDC | 100000 | +80% to -20% | Y5V | 6.5 | 4.0 | 5.0 | 0.55±0.05 | 编带 |
| DCS104Z26Y5VF6FJ5BQ | 50VDC | 100000 | +80% to -20% | Y5V | 6.5 | 4.0 | 5.0 | 0.55±0.05 | 编带 |
| DCS104Z26Y5VF6FJ5ER | 50VDC | 100000 | +80% to -20% | Y5V | 6.5 | 4.0 | 5.0 | 0.55±0.05 | 编带 |
| DCS104Z26Y5VF6FL5BQ | 50VDC | 100000 | +80% to -20% | Y5V | 6.5 | 4.0 | 5.0 | 0.55±0.05 | 编带 |
| DCS104Z26Y5VFEFJ5A0 | 50VDC | 100000 | +80% to -20% | Y5V | 6.5 | 4.0 | 5.0 | 0.58±0.05 镀锡铜线 | 编带 |
| DCS104Z26Y5VFEFL5A0 | 50VDC | 100000 | +80% to -20% | Y5V | 6.5 | 4.0 | 5.0 | 0.58±0.05 镀锡铜线 | 编带 |
| DCS104Z26Y5VH63L5A0 | 100VDC | 100000 | +80% to -20% | Y5V | 6.5 | 4.0 | 5.0 | 0.55±0.05 | 散件 |
| DCS104Z26Y5VH6FJ5A0 | 100VDC | 100000 | +80% to -20% | Y5V | 6.5 | 4.0 | 5.0 | 0.55±0.05 | 编带 |

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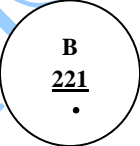
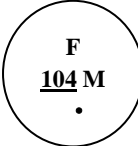

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电性能指标 Electrical Performance

| 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 0.1 Vrms | 参照规格表 See the specification |
| 2 | 损耗系数 DF | @25°C, 1 kHz and 0.1 Vrms | 5% max.(III类瓷 Y5V & Y5U) 3.5% max.(III类瓷 Y5P) |
| 3 | 绝缘电阻 IR | @额定电压 VDC,60S | 1000MΩmin. |
| 4 | 耐电压 Rate Voltage | 50V | 150%额定电压 无击穿或飞弧。 No visible damage |
| | | 100V | |
| | | | |
| 5 | 温度特性 temperature characteristic | | |
| | | Y5P | ±10% |
| | | Y5U | +22% to -56% |
| | | Y5V | +22% to -82% |

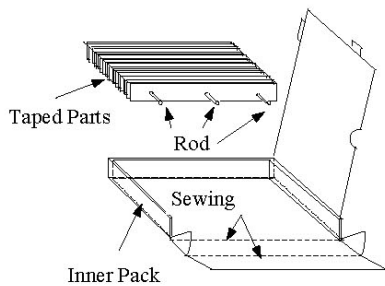
标志 Marking

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* 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 |
| ΔS | 1.0 max. |
| Δh | 1.0 max. |

1. *1 打弯脚型以H0为准。

For kink lead only.

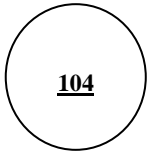
2. *2 直脚产品以H为准。

For straight lead only.

Figure 2

备注 1 DCS104Z26Y5VF6FL5BQ 的标志:

正面
Front



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[YP501471K040B20C6P](#) [SL102151J070HAND5P](#) [YP501102K050HAND5P](#) [ZU501102M050B20C6P](#) [YP501472K100B20C6P](#)
[ZU102103M100B20C0P](#) [YV500223Z080HAND5P](#) [F121K25S3NN63J5R](#) [F121K25S3NP63K7R](#) [F121K25S3NR63K7R](#)
[F122K47S3NP63K7R](#) [F681K43S3NR63K7R](#) [S470J25SL0N6TJ5R](#) [HVCC103Y6P152MEAX](#) [S103Z43Y5VN6TJ5R](#)
[DCH102K34Y5PP6FJ5A0](#) [CC1H220KA1EDCH4B1100](#) [CC3A222MC1GEF45H31MF](#) [CC3D103MC1IEF49D61MF](#)