

DCT 型高介电常数圆片瓷介电容器(II类)

High Dielectric Constant Disc Ceramic Capacitors (Class 2) Type DCT



■特点

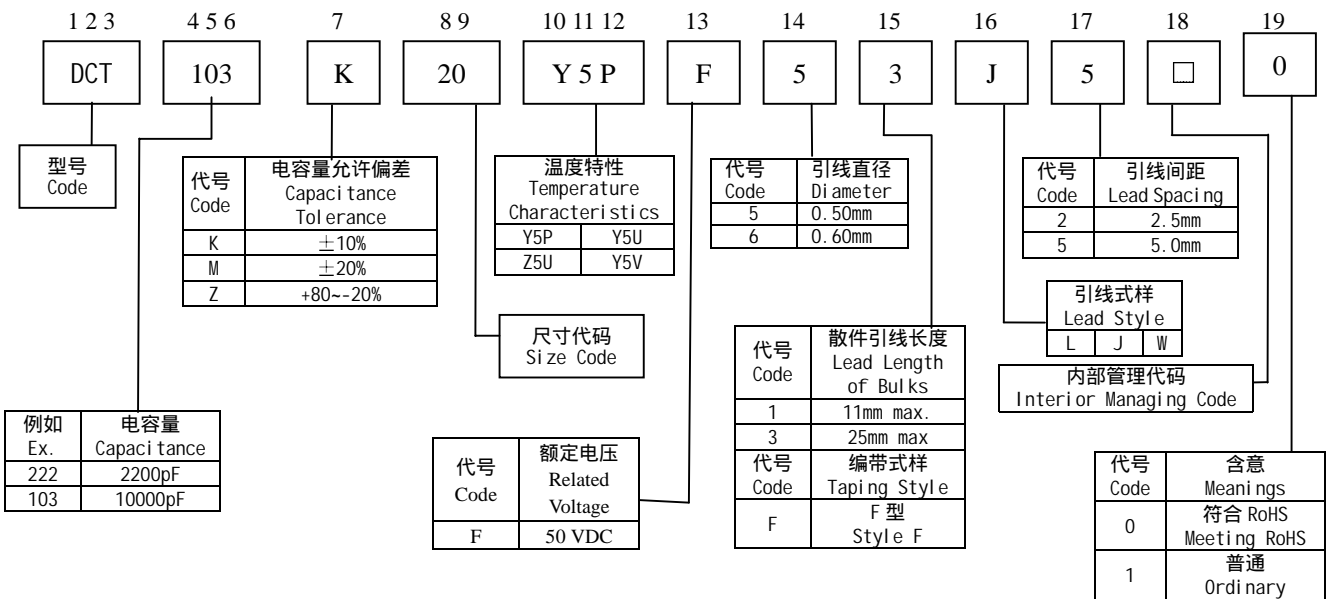
- Feature
- 大容量兼体积小
Large Capacitance in compact size
- 介电常数高
High dielectric constant
- 酚醛树脂包封
Phenolic compound resin coating applied

■推荐应用领域

- Recommended Application
- 旁路电路
Bypass circuit
- 耦合电路
Coupling circuit

■产品代码

Explanation of Part Numbers



■技术指标

Specification

特性 Characteristics	温度特性 Y5P Temp. Char. Y5P	温度特性 Y5U Temp. Char. Y5U	温度特性 Z5U Temp. Char. Z5U	温度特性 Y5V Temp. Char. Y5V	
工作温度 Operating Temperature	-30 ~ 85° C		10 ~ 85° C	-30 ~ 85° C	
额定电压 Rated Voltage	50VDC				
耐电压 Withstanding Voltage	2.5 倍额定电压 2.5 times related voltage				
电容量 Capacitance	在 25°C, 1 Vrms 和 1KHz 下测试, 电容量在允许偏差范围内 Within the specified tolerance, testing at 25°C, 1 Vrms and 1KHz				
	100~5600 PF	1500~22000 PF	4700~22000 PF	6800~22000 PF	
损耗因子 Dissipation Factor	tg δ ≤ 2.5 %				
绝缘电阻 Insulation Resistance	在 50VDC 下充电 60 秒, Rj ≥ 10000 M Ω Charge at 50VDC for 60 seconds, Rj ≥ 10000 M Ω				
温度特性 Temperature Characteristics	温度特性代码 Temperature Characteristics Code	Y5P	Y5U	Z5U	Y5V
	电容量变化率(%) max. Cap. Change(%)	±10	+22 ~ -56	+22 ~ -56	+22 ~ -82
	温度范围(°C) Temp. Range(°C)	-30 ~ +85	-30 ~ +85	+10 ~ +85	-30 ~ +85

■推荐产品规格及代码(包括尺寸)

Specification and Part Number of Recommended Products (Including Dimensions)

额定电压 50VDC

Rated Voltage 50VDC

温度特性 Temp. Char.	电容量 Capacitance (pF)	电容量公差 Cap. Tolerance (%)	产品代码 Part Number	尺寸 Dimensions(mm)				引线最短长度(mm)/ 编带式样 Min. Lead Length (mm)/ Taping Style	引线式样 Lead Style	尺寸代码 Size Code
				电容器直径 Body Dia. D _{max}	电容器厚度 Thick-ness T _{max}	引线间距 Lead Spacing F	引线直径 Lead Dia. d			
Y5P	100	±10	DCT101K16Y5PF53J5□0	4.0	3.0	5.0±1.0	0.5±0.05	25	J	16
	100	±10	DCT101K16Y5PF53J2□0			2.5±0.5	0.5±0.05	25		
	100	±10	DCT101K16Y5PF6FJ5□0			5.0±1.0	0.6±0.05	F		
	120	±10	DCT121K16Y5PF53J5□0			5.0±1.0	0.5±0.05	25		
	120	±10	DCT121K16Y5PF53J2□0	4.0	3.0	2.5±0.5	0.5±0.05	25	J	16
	120	±10	DCT121K16Y5PF6FJ5□0			5.0±1.0	0.6±0.05	F		
	150	±10	DCT151K16Y5PF53J5□0			5.0±1.0	0.5±0.05	25		
	150	±10	DCT151K16Y5PF53J2□0			2.5±0.5	0.5±0.05	25		
	150	±10	DCT151K16Y5PF6FJ5□0	4.0	3.0	5.0±1.0	0.6±0.05	F	J	16
	180	±10	DCT181K16Y5PF53J5□0			5.0±1.0	0.5±0.05	25		
	180	±10	DCT181K16Y5PF53J2□0			2.5±0.5	0.5±0.05	25		
	180	±10	DCT181K16Y5PF6FJ5□0			5.0±1.0	0.6±0.05	F		
	200	±10	DCT201K16Y5PF53J5□0	4.0	3.0	5.0±1.0	0.5±0.05	25	J	16
	200	±10	DCT201K16Y5PF53J2□0			2.5±0.5	0.5±0.05	25		
	200	±10	DCT201K16Y5PF6FJ5□0			5.0±1.0	0.6±0.05	F		
	220	±10	DCT221K16Y5PF53J5□0			5.0±1.0	0.5±0.05	25		
	220	±10	DCT221K16Y5PF53J2□0	4.0	3.0	2.5±0.5	0.5±0.05	25	J	16
	220	±10	DCT221K16Y5PF6FJ5□0			5.0±1.0	0.6±0.05	F		
	240	±10	DCT241K16Y5PF53J5□0			5.0±1.0	0.5±0.05	25		
	240	±10	DCT241K16Y5PF53J2□0			2.5±0.5	0.5±0.05	25		
	240	±10	DCT241K16Y5PF6FJ5□0	4.0	3.0	5.0±1.0	0.6±0.05	F	J	16
	270	±10	DCT271K16Y5PF53J5□0			5.0±1.0	0.5±0.05	25		
	270	±10	DCT271K16Y5PF53J2□0			2.5±0.5	0.5±0.05	25		
	270	±10	DCT271K16Y5PF6FJ5□0			5.0±1.0	0.6±0.05	F		
	300	±10	DCT301K16Y5PF53J5□0	4.0	3.0	5.0±1.0	0.5±0.05	25	J	16
	300	±10	DCT301K16Y5PF53J2□0			2.5±0.5	0.5±0.05	25		
	300	±10	DCT301K16Y5PF6FJ5□0			5.0±1.0	0.6±0.05	F		
	330	±10	DCT331K16Y5PF53J5□0			5.0±1.0	0.5±0.05	25		
	330	±10	DCT331K16Y5PF53J2□0	4.0	3.0	2.5±0.5	0.5±0.05	25	J	16
	330	±10	DCT331K16Y5PF6FJ5□0			5.0±1.0	0.6±0.05	F		
	360	±10	DCT361K16Y5PF53J5□0			5.0±1.0	0.5±0.05	25		
	360	±10	DCT361K16Y5PF53J2□0			2.5±0.5	0.5±0.05	25		
	360	±10	DCT361K16Y5PF6FJ5□0	4.0	3.0	5.0±1.0	0.6±0.05	F	J	16
	390	±10	DCT391K16Y5PF53J5□0			5.0±1.0	0.5±0.05	25		
	390	±10	DCT391K16Y5PF53J2□0			2.5±0.5	0.5±0.05	25		
	390	±10	DCT391K16Y5PF6FJ5□0			5.0±1.0	0.6±0.05	F		
	430	±10	DCT431K16Y5PF53J5□0	4.0	3.0	5.0±1.0	0.5±0.05	25	J	16
	430	±10	DCT431K16Y5PF53J2□0			2.5±0.5	0.5±0.05	25		
	430	±10	DCT431K16Y5PF6FJ5□0			5.0±1.0	0.6±0.05	F		
	470	±10	DCT471K16Y5PF53J5□0			5.0±1.0	0.5±0.05	25		
470	±10	DCT471K16Y5PF53J2□0	4.0	3.0	2.5±0.5	0.5±0.05	25	J	16	
470	±10	DCT471K16Y5PF6FJ5□0			5.0±1.0	0.6±0.05	F			
510	±10	DCT511K16Y5PF53J5□0			5.0±1.0	0.5±0.05	25			
510	±10	DCT511K16Y5PF53J2□0			2.5±0.5	0.5±0.05	25			
510	±10	DCT511K16Y5PF6FJ5□0	4.0	3.0	5.0±1.0	0.6±0.05	F	J	16	
560	±10	DCT561K16Y5PF53J5□0			5.0±1.0	0.5±0.05	25			
560	±10	DCT561K16Y5PF53J2□0			2.5±0.5	0.5±0.05	25			
560	±10	DCT561K16Y5PF6FJ5□0			5.0±1.0	0.6±0.05	F			
820	±10	DCT821K20Y5PF63J5□0	5.0	3.0	5.0±1.0	0.6±0.05	25	J	20	
820	±10	DCT821K20Y5PF63J2□0			2.5±0.5	0.6±0.05	25			
820	±10	DCT821K20Y5PF6FJ5□0			5.0±1.0	0.6±0.05	F			
1000	±10	DCT102K20Y5PF63J5□0			5.0±1.0	0.6±0.05	25			

额定电压 50VDC

Rated Voltage 50VDC

温度特性 Temp. Char.	电容量 Capacitance (pF)	电容量公差 Cap. Tolerance (%)	产品代码 Part Number	尺寸 Dimensions(mm)				引线最短长度(mm)/ 编带式样 Min. Lead Length (mm)/ Taping Style	引线式样 Lead Style	尺寸代码 Size Code
				电容器直径 Body Dia. D _{max}	电容器厚度 Thickness T _{max}	引线间距 Lead Spacing F	引线直径 Lead Dia. d			
Y5P	1000	±10	DCT102K20Y5PF63J2□□	5.0	3.0	2.5±0.5	0.6±0.05	25	J	20
	1000	±10	DCT102K20Y5PF6FJ5□□			5.0±1.0	0.6±0.05	F		
	1200	±10	DCT122K20Y5PF63J5□□			5.0±1.0	0.6±0.05	25		
	1200	±10	DCT122K20Y5PF63J2□□			2.5±0.5	0.6±0.05	25		
	1200	±10	DCT122K20Y5PF6FJ5□□			5.0±1.0	0.6±0.05	F		
	1500	±10	DCT152K22Y5PF63J5□□	5.5	3.0	5.0±1.0	0.6±0.05	25	J	22
	1500	±10	DCT152K22Y5PF63J2□□			2.5±0.5	0.6±0.05	25		
	1500	±10	DCT152K22Y5PF6FJ5□□			5.0±1.0	0.6±0.05	F		
	1800	±10	DCT182K26Y5PF6FJ5□□	6.5	3.0	5.0±1.0	0.6±0.05	F	J	26
	2000	±10	DCT202K26Y5PF6FJ5□□			5.0±1.0	0.6±0.05	F		
	2200	±10	DCT222K26Y5PF6FJ5□□			5.0±1.0	0.6±0.05	F		
2700	±10	DCT272K30Y5PF6FJ5□□	5.0±1.0			0.6±0.05	F			
3000	±10	DCT302K30Y5PF6FJ5□□	7.5	3.0	5.0±1.0	0.6±0.05	F	J	30	
3300	±10	DCT332K30Y5PF6FJ5□□			5.0±1.0	0.6±0.05	F			
Y5U	1500	±20	DCT152M20Y5UF63J5□□	5.0	3.0	5.0±1.0	0.6±0.05	25	J	20
	1500	±20	DCT152M20Y5UF63J2□□			2.5±0.5	0.6±0.05	25		
	1500	±20	DCT152M20Y5UF6FJ5□□			5.0±1.0	0.6±0.05	F		
	1800	±20	DCT182M20Y5UF63J5□□			5.0±1.0	0.6±0.05	25		
	1800	±20	DCT182M20Y5UF63J2□□			2.5±0.5	0.6±0.05	25		
	1800	±20	DCT182M20Y5UF6FJ5□□	5.0	3.0	5.0±1.0	0.6±0.05	F	J	20
	2200	±20	DCT222M20Y5UF63J5□□			5.0±1.0	0.6±0.05	25		
	2200	±20	DCT222M20Y5UF63J2□□			2.5±0.5	0.6±0.05	25		
	2200	±20	DCT222M20Y5UF6FJ5□□	5.0	3.0	5.0±1.0	0.6±0.05	F	J	20
	2700	±20	DCT272M20Y5UF63J5□□			5.0±1.0	0.6±0.05	25		
	2700	±20	DCT272M20Y5UF63J2□□			2.5±0.5	0.6±0.05	25		
	2700	±20	DCT272M20Y5UF6FJ5□□			5.0±1.0	0.6±0.05	F		
	3300	±20	DCT332M20Y5UF63J5□□	5.0	3.0	5.0±1.0	0.6±0.05	25	J	20
	3300	±20	DCT332M20Y5UF63J2□□			2.5±0.5	0.6±0.05	25		
	3300	±20	DCT332M20Y5UF6FJ5□□			5.0±1.0	0.6±0.05	F		
	4700	±20	DCT472M22Y5UF63J5□□	5.5	3.0	5.0±1.0	0.6±0.05	25	J	22
	4700	±20	DCT472M22Y5UF63J2□□			2.5±0.5	0.6±0.05	25		
4700	±20	DCT472M22Y5UF6FJ5□□	5.0±1.0			0.6±0.05	F			
6800	±20	DCT682M26Y5UF6FJ5□□	6.5	3.0	5.0±1.0	0.6±0.05	F	J	26	
10000	±20	DCT103M30Y5UF6FJ5□□	7.5	3.0	5.0±1.0	0.6±0.05	F	J	30	
Y5V	4700	+80~-20	DCT472Z20Y5VF63J5□□	5.0	3.0	5.0±1.0	0.6±0.05	25	J	20
	4700	+80~-20	DCT472Z20Y5VF63J2□□			2.5±0.5	0.6±0.05	25		
	4700	+80~-20	DCT472Z20Y5VF6FJ5□□			5.0±1.0	0.6±0.05	F		
	6800	+80~-20	DCT682Z22Y5VF63J5□□	5.5	3.0	5.0±1.0	0.6±0.05	25	J	22
	6800	+80~-20	DCT682Z22Y5VF63J2□□			2.5±0.5	0.6±0.05	25		
	6800	+80~-20	DCT682Z22Y5VF6FJ5□□			5.0±1.0	0.6±0.05	F		
	10000	+80~-20	DCT103Z26Y5VF6FJ5□□			6.5	3.0	5.0±1.0		
15000	+80~-20	DCT153Z30Y5VF6FJ5□□	7.5	3.0	5.0±1.0	0.6±0.05	F	J	30	
Z5U	4700	±20	DCT472M20Z5UF63J5□□	5.0	3.0	5.0±1.0	0.6±0.05	25	J	20
	4700	±20	DCT472M20Z5UF63J2□□			2.5±0.5	0.6±0.05	25		
	4700	±20	DCT472M20Z5UF6FJ5□□			5.0±1.0	0.6±0.05	F		
	5600	±20	DCT562M22Z5UF63J2□□	5.5	3.0	2.5±0.5	0.6±0.05	25	J	22
	5600	±20	DCT562M22Z5UF63J5□□			5.0±1.0	0.6±0.05	25		
	5600	±20	DCT562M22Z5UF6FJ5□□			5.0±1.0	0.6±0.05	F		
	6800	±20	DCT682M26Z5UF6FJ5□□			6.5	3.0	5.0±1.0		
	8200	±20	DCT822M30Z5UF6FJ5□□	7.5	3.0	5.0±1.0	0.6±0.05	F	J	30
10000	±20	DCT103M30Z5UF6FJ5□□	5.0±1.0			0.6±0.05	F			

注：1) 编带式样为 F 型。

2) 散件的引线长度也可根据客户要求订制。

Note: 1) *Taping style is style F.

2) Lead length can be designed as required for bulk.

3) 引线式样有 J 型、L 型、K 型供选择。

3) There are style J, style L, style K for the choice of lead style.

■ 典型特性曲线

Typical Characteristics Graph

