

- ◆ 半导体型 (Semiconductor Type) 电容器, 是一种具有半导体特征的陶瓷电容器。该类电容器适用于作旁路和耦合之用。
- ◆ 该类陶瓷介质是以在类别温度范围内电容量非线性变化来表征, 其主要温度特性有: Y5P、Y5U 与 Y5V 等。

电容量范围: 0.001 μ F~0.47 μ F

额定电压 (U_r): 10VDC~100VDC

耐电压 (TV): 在测量期间无击穿或漏电。

- ◆ 试验电压: 1.5 U_r (当 $U_r > 50V$ 时, 为 1.25 U_r)。
- ◆ 充放电流 (漏电流) 小于 0.05A。
- ◆ 测试时间: 5s 以内。

电容量 (C_r): 在允许偏差范围内。

- ◆ 测试频率: 1KHz。
- ◆ 测试电压: 0.1Vrms (0.3Vrms)。
- ◆ 环境温度要求: 25 $\pm$ 1 $^{\circ}$ C。

损耗角正切 ($\tan \delta$): $\tan \delta \leq 0.050$ 。

测量条件同电容量。

绝缘电阻 (IR): 不小于 1000M Ω 或 $IR \cdot C_r \geq 25s$ (以较小值为标准)。

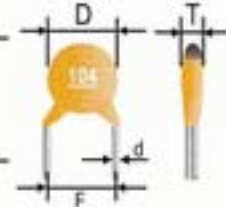
使用额定电压进行测量, 测试时间为不超过 60s。

使用温度范围: -25 $^{\circ}$ C~+125 $^{\circ}$ C

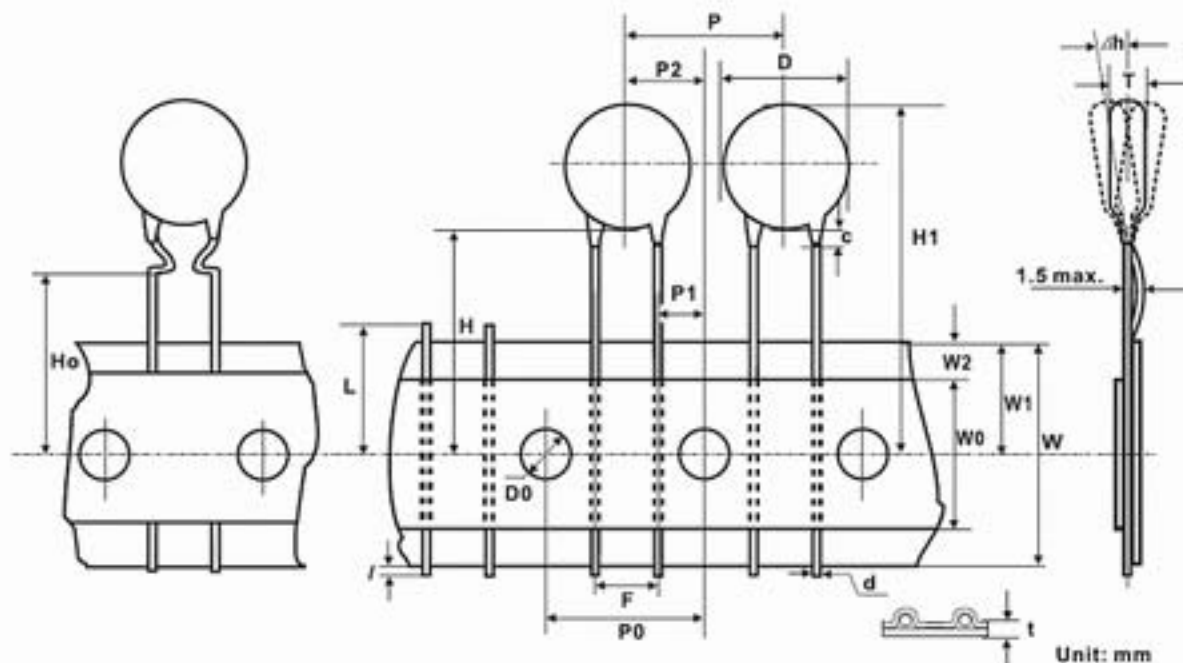
环保要求: 符合 RoHS 要求。

直脚	平行脚	内弯脚	外弯脚	双弯脚

Dielectric	Y5P			Y5R			Y5U			Y5V			
Rated Voltage (DC)	10V 16V	25V	50V	10V 16V	25V	50V	10V 16V	25V	50V	10V 16V	25V	50V	100V
Capacitance (μF)	0.0010			A	A	A							
	0.0012			A	A	A							
	0.0015			A	A	A							
	0.0018			A	A	A							
	0.0022			A	A	A							
	0.0027			A	A	A							
	0.0033	A	A	A	A	A							
	0.0039	A	A	A	A	A							
	0.0047	A	A	A	A	A							
	0.0056	C	C	C	A	A							
	0.0068	C	C	C	A	A							
	0.0082	C	C	C	A	A							
	0.010	C	C	C	A	A	A	A	A		A	A	
	0.012	C	C	C	C	C	A	A	A		A	A	
	0.015	C	C	C	C	C	A	C	C		A	A	
	0.018	E	E	E	C	E	A	C	C		B	B	
	0.022	E	E	E	E	E	A	C	C	A	B	B	C
	0.027	E	E	G	E	G	A	C	C	B	B	C	C
	0.033	G	G	G	G	G	C	C	C	B	B	C	C
	0.039	G	G	I	G	I	C	C	E	B	C	C	C
	0.047	G	G	I	G	I	C	C	E	B	C	C	C
	0.056	I	I	I	I	J	E	E	E	C	C	D	E
	0.068	I	I	I	I	L	E	E	E	C	C	D	E
	0.082	J	J	J	J	L	E	G	G	C	C	D	E
	0.10	L	L	M	L	M	E	G	I	C	D	F	I
	0.15	M					G	G	J	G	G	F	L
	0.22						J	J	L	J	J	L	M
	0.33									M	M		
	0.47									M			
	0.68												
Capacitance Tolerance	±10% ±20%			±10% ±20%			±20% +80%~-20%			±20% +80%~-20%			
Thickness (T) max.	4.5mm			4.5mm			4.5mm			4.5mm			
Lead Spacing (F) ±1.0mm	2.5mm/5.0mm/7.5mm/10mm												
Lead Diameter (d) ±0.1mm	0.5mm												
Coating	Phenolic resin												
Body color	Saffron yellow												



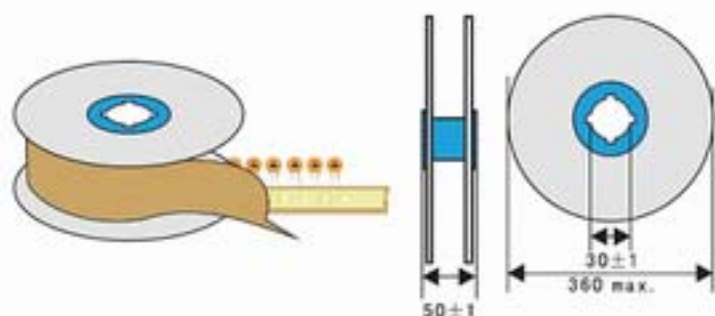
Unit: mm																				
Code	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
Diameter (D) max.	5.0mm	5.5mm	6.0mm	6.5mm	7.0mm	7.5mm	8.0mm	8.5mm	9.0mm	10mm	11mm	12mm	14mm	15mm	16mm	18mm	19mm	20mm	22mm	25mm



Item	Symbol	Specification		Remarks
		Value	Tolerance	
Body diameter	D	11.0	max.	
Body Thickness	T	3.5	max.	
Lead-wire diameter	d	0.6	+0.06/-0.05	
Pitch of component	P	12.7	± 1.0	
Feed hole pitch	P0	12.7	± 0.3	Cumulative pitch error: 1.0mm/20 pitch
Feed hole center to lead	P1	3.85	± 0.7	To be measured at bottom of clinch
Hole center to component center	P2	6.35	± 1.3	
Lead-to-lead distance	F	5.0 or 2.5	+0.8/-0.2	
Component alignment, F-R	Δh	0	± 2.0	
Tape width	W	18.0	+1.0/-0.5	
Hold-down tape width	W0	11.0	min.	
Hole position	W1	9.0	+0.75/-0.5	
Hole-down tape position	W2	3.0	max.	
Height of component from tape center	For straight lead type	H	20.0	+1.0/-0.5
	For kinked lead type	H0	16.0	± 0.5
Component height	H1	32.25	max.	
Lead-wire protrusion	l	2.0	max.	
Feed hole diameter	D0	4.0	± 0.3	
Total tape thickness	t	0.7	± 0.2	Ground paper: $0.5 \pm 0.1\text{mm}$
Length of snipped	L	11.0	max.	
Coating rundown on leads	C	1.5	max.	

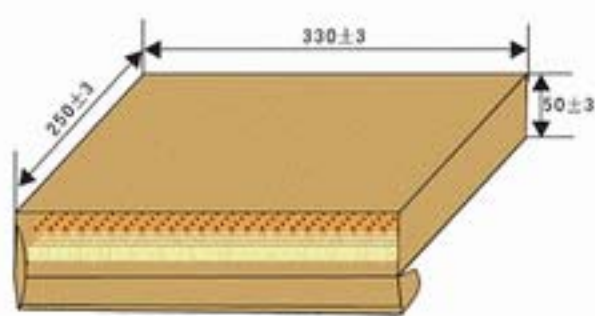
These radial taped ceramic disc capacitors are designed especially for automatic insertion. The available types for radial taped disc are diameters $\phi 11.0\text{mm}$ and under.

Packaging Format & Dimensions(unit: mm)



Capacitor Quantity: 2000pcs or 2500pcs per Reel.

Packaging Format & Dimensions(unit: mm)



Capacitor Quantity: 2000pcs per Box (AMMO).