

- ◆ 低损耗型 (Low Loss Type) 电容器是专门设计并用在低损耗、电容量大或工作电压高的电路中的一种电容器。
- ◆ 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 (Bn) 與 Y5R (R)。

电容量范围: 100pF~0.01uF

额定电压 (U_r): 500VDC~6000VDC

耐电压 (TV): 在测量期间无击穿或漏电。

- ◆ 试验电压: $1.5U_r+500V$ 。
 - ◆ 充放电流 (漏电流) 小于 0.05A。
 - ◆ 测试时间: 5s 以内。
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电容量 (C_0): 在允许偏差范围内。

- ◆ 测试频率: 1KHz
 - ◆ 测试电压: 1.0Vrms。
 - ◆ 环境温度要求: $25 \pm 1^\circ\text{C}$ 。
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损耗角正切 ($\tan \delta$): $\tan \delta \leq 0.005$ (Y5P) 或 $\tan \delta \leq 0.002$ (Y5R)。

测量条件同电容量。

绝缘电阻 (IR): 不小于 10000M Ω 。

使用 500V 测量, 测试时间为不超过 60s。

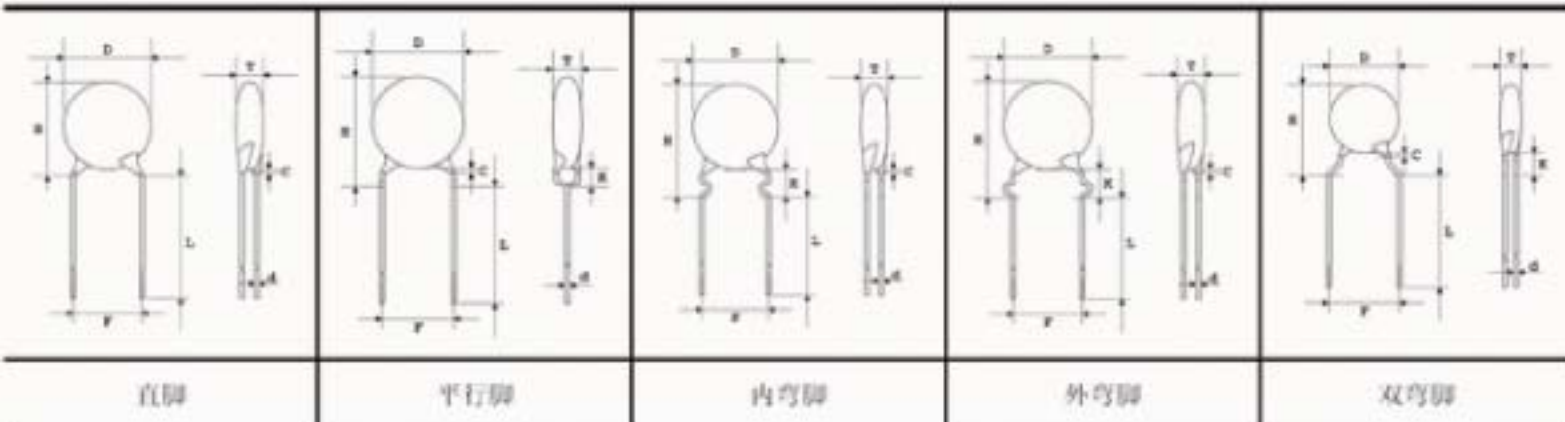
使用温度范围: $-25^\circ\text{C} \sim +125^\circ\text{C}$

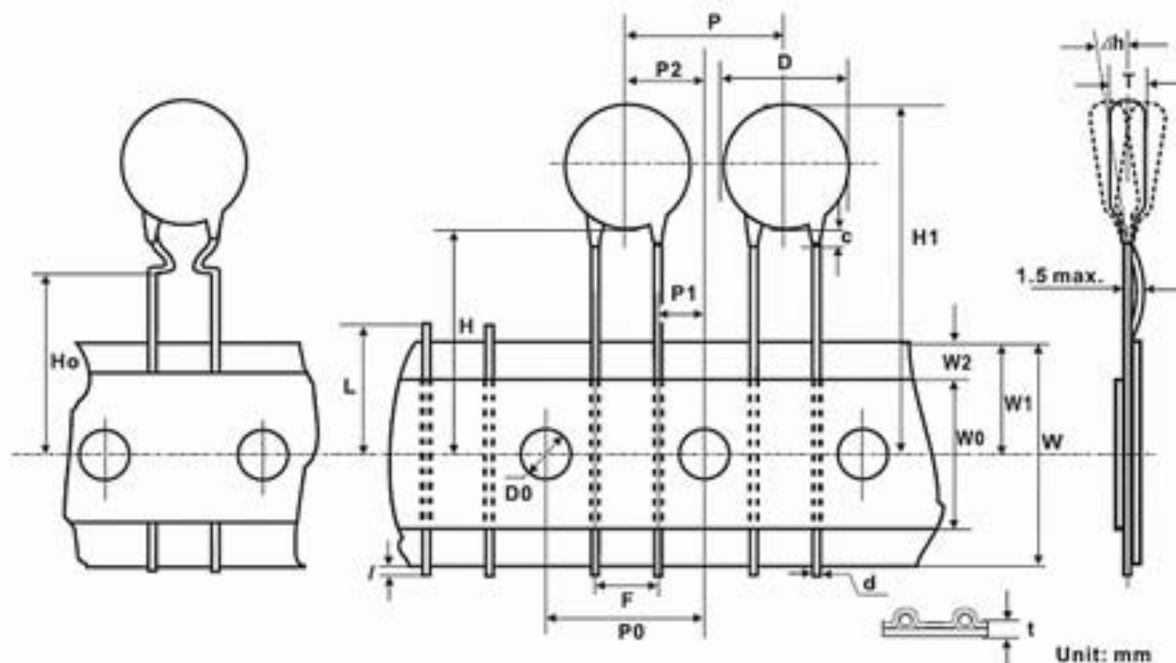
环保要求: 由于要实现损耗低的要求, 故在介质的生产中, 会添加铅 (Pb), 故该类别产品均含铅, 但其符合 RoHS 豁免条款第 7 项中 “Lead in electronic ceramic parts”。

Rated Voltage (DC)	500V / 630V	1000V / 1600V		2000V to 3000V		4000V	6000V
Dielectric	YSR	YSR	BN (YSP)	YSR	BN (YSP)	BN (YSP)	BN (YSP)
Capacitance (pF)							
100							G
120							G
150							G
180							G
220			E				G
270			E				G
330			E				G
390			E				G
470	D		E				G
560	D		E				G
680	E		E				G
820	F		E				G
1000	F		I	F			J
1200	H		J	G			K
1500	H		J	H			K
1800	J		L	I			K
2200	J		M	J			L
2700	L		M	K			L
3300	L		N	K			L
3900	M		O	M			L
4700	M		P	N			M
5600				O			
6800				P			
8200				Q			
10000				R			
Capacitance Tolerance	±10% ±20%	±10% ±20%		±10% ±20%		±10% ±20%	±10% ±20%
Thickness (T) max.	4.0mm	4.5mm		5.0mm		6.0mm	8.0mm

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

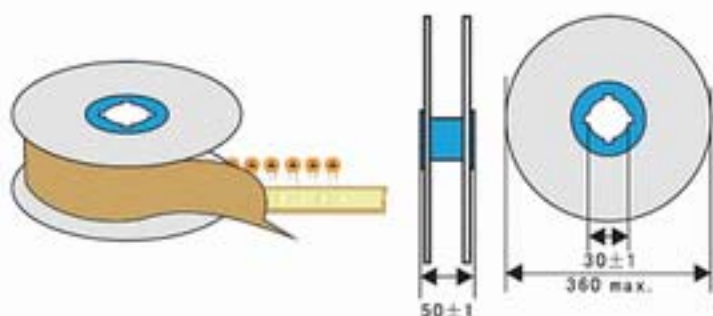




Item	Symbol	Specification		Remarks	
		Value	Tolerance		
Body diameter	D	11.0	max.		
Body Thickness	T	3.5	max.		
Lead-wire diameter	d	0.6	+0.06/-0.05		
Pitch of component	P	12.7	±1.0		
Feed hole pitch	P0	12.7	±0.3	Cumulative pitch error: 1.0mm/20 pitch	
Feed hole center to lead	P1	3.85	±0.7	To be measured 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 ± 0.1mm	
Length of snipped	L	11.0	max.		
Coating rundown on leads	C	1.5	max.		

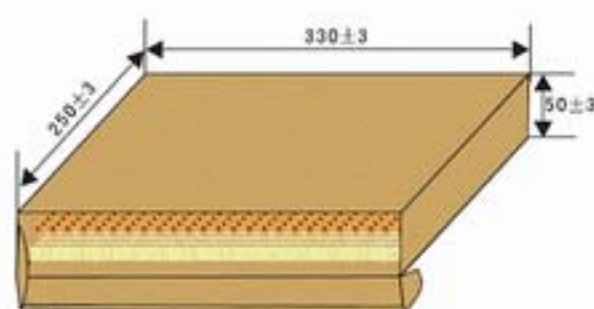
These radial taped ceramic disc capacitors are designed especially for automatic insertion. The available types for radial taped disc are diameters φ11.0mm and under.

Packaging Format & Dimensions (unit: mm)



Capacitor Quantity: 2000pcs or 2500pcs per Reel.

Packaging Format & Dimensions (unit: mm)



Capacitor Quantity: 2000pcs per Box (AMMO).