

Introductions

- Dielectric element material: BaTiO₃, TiO₂, and SrTiO₃.
- Silver electrode used.
- Phenolic resin coating applied.
- Non-polarity, inorganic, passivity element.

Features

- RoHS complied.
- Ultra large capacitance in small sizes.
- Cost saving by replacing film capacitors.

Applications

- Transistorized.
- Low voltage electronic circuits for by-pass, coupling.
- Frequency determination, in which dielectric losses, insulation resistance, and capacitance stability is not major importance.

General Specifications

Operating Temperature Range	-25°C to +125°C
Capacitance Range	0.001uF to 0.47uF
Rated Voltage (U _R)	10V to 100V
Dielectric Strength	U _R <100V: 1.5U _R U _R =100V: 1.25U _R Both are 1-3s, 50mA max.
Capacitance (C _R)	Within the specified tolerance. Tested by 1kHz±20%, 0.1Vrms, 25±1°C
Dissipation Factor	0.050 max. Measured condition see "Capacitance (C _R)"
Insulation Resistance	1000MΩ or 25MΩ·uF (whichever is smaller) min. Tested by U _R for 1 minute.
Temperature coefficient	Y5P, Y5U, Y5V etc.

Disc type ceramic capacitors

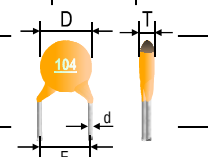
Semiconductor type



Capacitance Chart

PREFERRED SIZES ARE SHADED

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	A						
	0.0068	C	C	C	A	A	A						
	0.0082	C	C	C	A	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	E	A	C	C		B	B
	0.022	E	E	E	E	E	E	A	C	C	A	B	B
	0.027	E	E	G	E	G	G	A	C	C	B	B	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												



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

This catalog has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.