

HIGH VOLTAGE CERAMIC CAPACITOR

Class 1: Temperature Compensation

1. Linear temperature coefficient of capacitance.
2. High stability of capacitance.
3. Low loss at wide range of frequency.

Class 2: High Dielectric Constant

1. Non linear temperature coefficient of capacitance.
2. Large capacitance in small sizes.

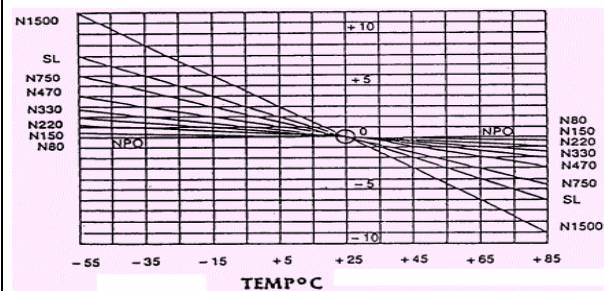


Product Type

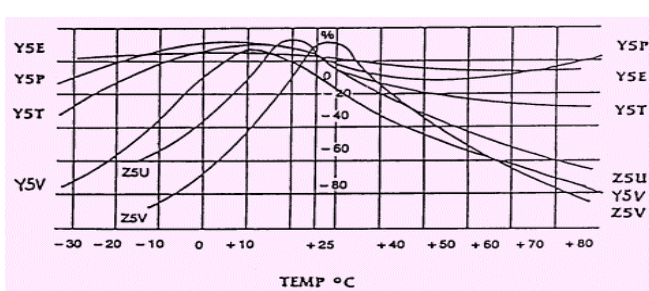
1. (T - C) 0.5PF ~ 821PF measured at 1MHZ±10%,1.0-5.0V rms, 25 °C
2. (HI-K) 100PF ~ 104PF measured at 1KHZ±10%,1.0-5.0V rms, 25 °C

Temp. Range	- 25 °C to + 85 °C							
Working voltage (W.V.)	16V 25V 50VDC							
Test Condition	Rated working voltage 16V.25V.50VDC*2 times of the rated voltage (50mA and under) for 1 to 5 seconds							
Insulation Resistance (I R)	10000MΩ min.at rated voltage for 60±5 seconds			Not less than 10,000MΩ or (200/CR)MΩ whichever is the smaller CR:Capacitance(μF)				
Dissipation factor (DF)	NPO · SL		Y5P	Z5U	Z5V	Y5V		
	C ≥ 30 PF Q ≥ 1000		≤ 2.5%	≤ 2.5%	≤ 3.5%	≤ 5.0%		
C < 30 PF Q ≥ 400 + 20 × C								
Tolerance	C	D	J	K	M	Z		
Code	±0.25 PF	±0.5 PF	± 5 %	± 10 %	± 20 %	+ 80% - 20%		
Operating Temp. Range	Type Code	Temperature Coefficient		Temp. Range				
	NPO	± 0 PPM		- 25 °C to + 85 °C				
	SL	+350 ~ -1000 PPM		- 25 °C to + 85 °C				
	Y5P	± 10%		- 25 °C to + 85 °C				
	Y5V	+22% ~ -82%		- 25 °C to + 85 °C				
	Z5U	+22% ~ -56%		- 10 °C to + 85 °C				
	Z5V	+22% ~ -82%		- 10 °C to + 85 °C				
The reference temperature: 25°C								
Rated Voltage (VDC)	Temp.char / capacitance range (pF)					Dimension (mm)		
	NPO	SL	Y5P	Z5U	Z5V	D (max)	F (±0.8)	T (max)
CLASS 1~2 50V	0.5 ~ 39	23 ~ 51	101 ~ 821	202 ~ 472	232 ~ 103	5.0	2.5 / 5.0	3.0
	47	51 ~ 221	102 ~ 222	-	333 ~ 473	6.0	2.5 / 5.0	3.0
	51 ~ 101	221 ~ 331	232 ~ 332	205 ~ 103	-	7.0	2.5 / 5.0	3.0
	121 ~ 221	341 ~ 471	342 ~ 682	-	-	9.0	2.5 / 5.0	3.0
	271	501 ~ 681	822 ~ 103	-	-	11.0	2.5 / 5.0	3.0
	331	821 ~ 102	-	-	-	12.0	2.5 / 5.0	3.0

T-C. CHART



HI - K . CHART



■ HIGH VOLTAGE CERAMIC CAPACITOR

Class 3:Semi Conductive

1. Linear temperature coefficient of capacitance.
2. Low loss at wide range of frequency.
3. Stable capacitance change over the specified temperature.
4. Ultra large capacitance in small sizes.
5. Cost saving py replacing film capacitors.



Product Type

3. (S - C) 682PF ~ 224PF measured at 1KHz±10%, 0.1V rms, 25 °C

Temp. Range	- 25 °C to + 85 °C				
Working voltage (W.V.)	16V.DC		25V ~ 50V.DC		
Test Condition	Rated working voltage 16V.25V.50VDC*2 times of the rated voltage (50mA and under) for 1 to 5 seconds				
Insulation Resistance (IR)	Not less than 100MΩ or (10/CR)MΩ whichever is the smaller CR:Capacitance(μF)		Not less than 1,000MΩ or (20/CR)MΩ whichever is the smaller CR:Capacitance(μF)		
Dissipation factor (DF)	Y5U	Y5V	Y5P	Y5U	Y5V
	≤ 7.5%	≤ 7.5%	≤ 5.0%	≤ 5.0%	≤ 5.0%
Temperature Coefficient	+22% ~ -56%	+22% ~ -82%	±10%	+22% ~ -56%	+22% ~ -82%
Tolerance	J	K	M	Z	P
Code	± 5 %	± 10 %	± 20 %	+ 80% - 20%	+ 100% - 0%

The reference temperature: 25°C

Rated Voltage (VDC)	Temp.char / capacitance range (pF)			Dimension (mm)		
	Y5P	Y5U	Y5V	D (max)	F (±0.8)	T (max)
CLASS 3 16V~50V	682 ~ 103	153 ~ 503	333 ~ 403	6.0	2.5 / 5.0	3.0
	153 ~ 223	683 ~ 104	473 ~ 104	7.0	2.5 / 5.0	3.0
	273 ~ 333	104	104	8.0	2.5 / 5.0	3.0
	403 ~ 53	-	154 ~ 224	9.0	2.5 / 5.0	3.0
	683	154 ~ 224	155 ~ 224	10	2.5 / 5.0	3.0
	104	-	-	11	2.5 / 5.0	3.0

The size is usual goods, special request To conferred on the Side.

S-C. CHART

