



HIGH-K (DIELECTRIC CONSTANT)TYPE-CLASS II(12V~30KV)

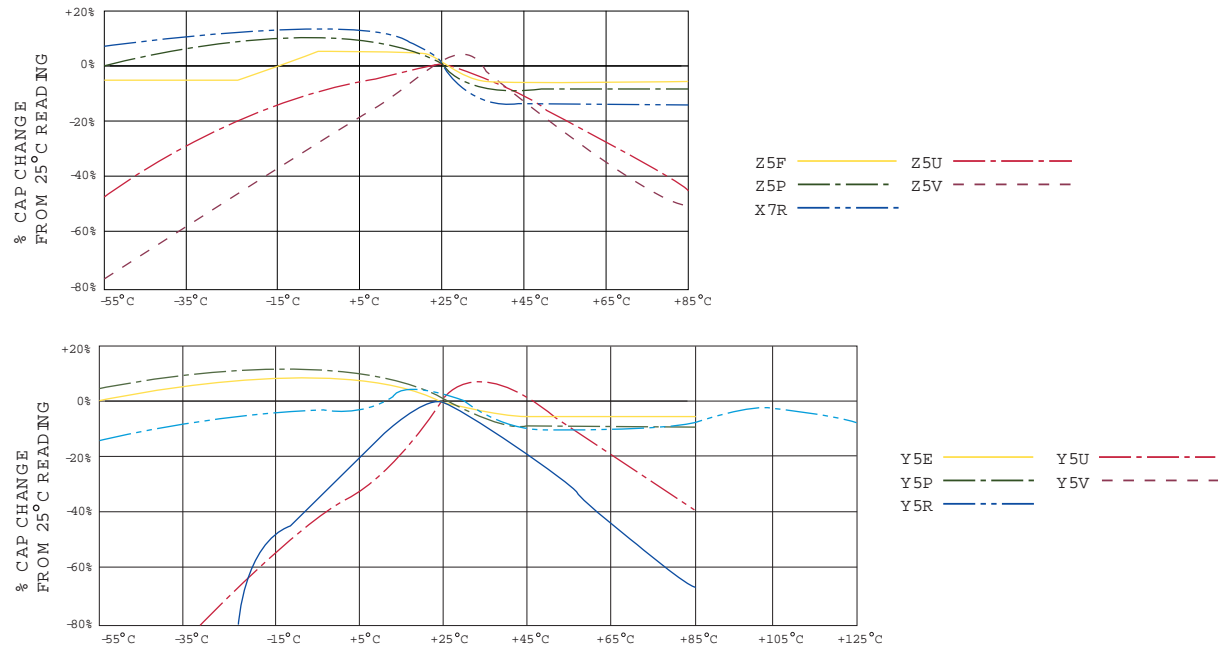
Applications:

- By-pass and coupling
- Frequency discriminating circuits where Q and stability of Cap. Character not a importance.

Specifications:

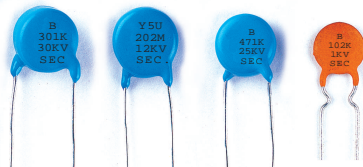
Capacitance (C)	Range	80pF 0.2 F m measured at 1KHz 10% 1.0 5.0Vrms, 25C					
	Tolerance	Code	K	K	Z	P	V
			±10%	±20%	+80%	+100%	Guaranteed
				-20%	-0.0%	Min. value	
Dissipation Factor(DF)	2.5% Max.	at 1KHz, 1Vrms, 25°C for Y5E, Y5P, Y5U, Z5F, Z5P, Z5U, X7R					
	5.0% Max.	at 1KHz, 1Vrms, 25°C for Z5V, Y5V					
Insulation Resistance(R)	7500MΩ Min. or R X C • 75Ω • F, measured at W.V.DC but not exceeding 500VDC						
Voltage	Working Voltage(W.V.)	12VDC 15KVDC					
	Test Condition	W.V. = 1KV	2.5 X W.V.	Time	1~5sec.	Current	•50mA
		W.V. = 1KV	2.0 X W.V.	1~5sec.	•50mA		
		W.V. = 1KV	1.75 X W.V.	1~5sec.	•50mA		
		W.V. ≥ 3KV	1.5 X W.V.	1~5sec.	•50mA		
		W.V. ≥ 10KV	1.2 X W.V.	1~5sec.	•50mA		
Capacitance Temp. Characteristic Range	+10°C ~ +85°C	Z5F, Z5P, Z5U, Z5V (Operating Temp. Range ~ +125°C)					
	-30°C ~ +85°C	Y5E, Y5P, Y5R, Y5V, Y5U (Operating Temp. Range ~ +125°C)					
	-55°C ~ +125°C	X7R					
Encapsulation	As mentioned						
Markings	As mentioned						

Typical Examples of Temperature Characteristics





Dimensions



unit:mm

W.V.	12-50V				500V				1KV			2KV			3KV			
CHAR.	Z5F	Z5U	Z5U	X7R	Z5F	Z5U	Z5V	X7R	Z5F	Z5U	X7R	X7R	Y5P	Z5V	Z5U	Y5P	Z5U	Z5V
	Z5P	Y5U			Y5F	Y5U			Y5F	Y5U								
CAP.(pF)	Z5P	Y5U			Y5F	Y5U			Y5F	Y5U			Y5P	Z5V	Z5U	Y5P	Z5U	Z5V
80																		
100																		
120																		
150																		
200																		
220																		
250																		
300																		
330	5.5			5.5	5.5			6	7								7	
390																		
470																		
500																		
560																		
680																		
750																		
820																		
1000																		
1200																		
1500																		
1800																		
2000																		
2200																		
2500																		
2700	6.5	5.5	5.5															
3000																		
3300																		
3900	7.5																	
5000																		
5600	8.5																	
6800																		
7500																		
8200	11	6.5	6.5	10														
10000		8		11														
15000		9																
20000																		
22000		11	7.5															
33000																		
47000																		
56000																		
100000																		
Thickness	4.0M ax.				4.0M ax.				4.0M ax.			5.0M ax.			6.5M ax.			

For 4KV and over, please contact us.

CHARACTERISTICS :

Char.	X7R	Y5P	Y5U	Y5V	Z5F	Z5P	Z5U	Z5V
Temp Range (°C)	-55~+125	-30~+85	-30~+85	-30~+85	+10~+85	+10~+85	+10~+85	+10~+85
Max.Change in cap.	±15%	±10.0%	+22% -56%	+22% -82%	±7.5%	±10.0%	+22% -56%	+22% -82%