

High Voltage Ceramic Disc Capacitor

PC25 have feature of withstanding higher voltage. These capacitors are used in bypass and coupling circuits. Therein the higher voltage disc capacitors with low dissipation factor particularly suit to use in the circuits such as line scanning in TV set.

Specification

- * Operating Temperature: -25 to +85°C
- * Capacitance: under 1KHz (class 2) and 1MHz (class 1) and 25°C +/-2°C
(Vrms= 1.0V conditions, not exceed capacitance tolerance)
- * Dissipation Factor: SL, YL Q > 1000
Y5P, Y5U, Y5V D.F. < 2.5%
Bn D.F. < 2R D.F. < 0.1%
- * Insulation Resistance: At 500VDC voltage for 1 minuteΩ
Class 1 - I.R ≥ 10000MΩ
Class 2 - I.R ≥ 4000MΩ
- * Testing Voltage: Ur < 6KV, Ut = 1.5Ur + 500V
Ur ≥ 6KV, Ut = 1.5xUr



Capacitor Range And Diameter

DC	Dimension (mm)		Temperature Characteristic							Lead Spacing (mm)
	Diameter (max)	Thick (max)	Y5P (B)	Y5U	Z5U	Y5V	SL	Y5P (B) Low Dissipation	YR	
			Nominal Capacitance (pF)							
1KV	5.5	4.0	51 ~ 560	470 ~ 1500	1000 ~ 1500	1000, 2200	10 ~ 100			5.0 +/- 1.0
	6.5		680, 820	1500	2200		120	470 ~ 820	220 ~ 270	
	7.5		1000, 1200	2200	3300	3300	150, 180	1000, 1200	560, 680	
	8.5		1500	3300, 3900	3900	4700	220	1500	820, 1000	
	9.5		1800, 2200	4700	4700	6800	270, 330	1800, 2200	1200	
	10.0		2700		6800	10000		2700	1500	
	11.0		3300	6800	8200		390, 470	3300	1800	
	11.8		3900	8200	10000	15000	560	3900	2200	7.5 +/- 1.0
	12.5		4700	10000				4700	2700	
	13.5									
	14.2		5600			22000		5600	3300	
	15.0		6800					6800	3900	
	16.0								4700	
	17.5		8200					8200		
19.0	10000					10000	5600	10.0 +/- 1.0		
2KV	5.5	5.0					4 ~ 56			5.0 +/- 1.0
	6.5		68 ~ 470	470 ~ 1000		1000, 1500	68	100 ~ 470	100 ~ 270	
	7.5		560, 680	1500		2200	82, 100	560, 680	330, 390	
	8.5		820, 1000	2200		3300	120, 150	820, 1000	470, 560	
	9.5		1200			4700	180	1200	680, 820	
	10.0		1500	3300		5600	220	1500	1000	
	11.0		1800			6800	270	1800	1200	
	11.8		2200	4700			330	2200		7.5 +/- 1.0
	12.5		2700			10000	390	2700	1500	
	13.5			6800					1800	
	14.2		3300	8200			470	3300	2200	

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DC	Dimension (mm)		Temperature Characteristic							Lead Spacing (mm)
	Diameter (max)	Thick (max)	Y5P (B)	Y5U	Z5U	Y5V	SL	Y5P (B) Low Dissipation	YR	
			Nominal Capacitance (pF)							
	15.0	5.0	3900			15000	560	3900		10.0 +/- 1.0
	16.0		4700	10000				4700	2700	
	17.5									
	19.0		5600			22000		5600	3300, 3900	
	20.0		6800							
3KV	6.5	6.0	51 ~ 330	470 ~ 680		1000	10 ~ 33	68 ~ 330		5.0 +/- 1.0
	7.5		390, 470	1000		1500		390, 470		
	8.5		560, 680	1500		2200		560, 680		
	9.5		820			3300		820		
	10.0		1000	2200				1000		
	11.0		1200			4700		1200		
	11.8		1500	3300				1500		
	12.5		1800			6800		1800		7.5 +/- 1.0
	13.5			4700						
	14.2		2200			10000		2200		
	15.0		2700					2700		
	16.0			6800						
	17.5		3300	8200				3300		
	19.0			10000			15000			
Capacitance Tolerance (%)			10%, 20%	20%	20%	+80-20%	10%	10%		

Note: 1) YR temperature characteristic, in the range of temperature from 30°C to +85°C, the change rate at its capacitance is +/-15%, and however in the range of temperature from 25°C to +125°C, the change rate of its capacitance is +15% to -30%.
 2) Y5P (B) - General dissipation type