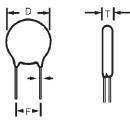
Disc Ceramic Capacitors



General Specifications - Class III Semi Conducting

DIELECTRIC - CLASS III

A thin dielectric layer is grown on a disc of conductive ceramic. Very large capacitances can be obtained due to reduced thickness of this barrier layer and its inherently high dielectric constant. Due to its small dimensions, they are a less expensive replacement of multilayer ceramic or polyester capacitors. An equivalent circuit is shown below: Meets IEC 324 (1970).



HOW TO ORDER

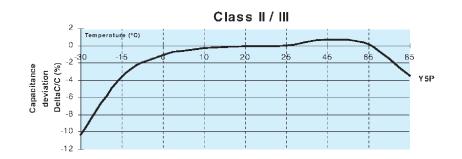


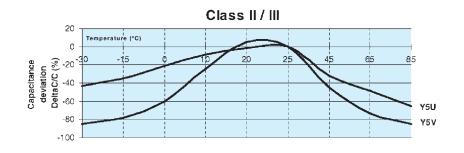
PERFORMANCE CHARACTERISTICS CLASS III

Measured at	1.0 kHz / 0.1 Vrms / 25°C					
Dissipation Factor (%)	$C_R ≤ 22 \text{ nF} \rightarrow Y5V$, Y5U ≤ 7.5% $C_R > 22 \text{ nF} \rightarrow Y5V$, Y5P ≤ 5.0%					
Tolerance	$Y5P \rightarrow \pm 20\% / -20 +50\%$ $Y5U \rightarrow \pm 20\% / -20 +50\%$ $Y5V \rightarrow -20\% +50\% / -20 +80\%$					
Insulation Resistance (IR)	Y5P	≥12 MΩ				
	Y5U	4.7 nF100 nF → ≥ 10 MΩ 200 nF → ≥ 1 MΩ				
	Y5V	≥ 100 MΩ				
Dielectric Strength NOTE: Charging current limited to 50 mA	Between leads	Vt = 1.25 V _R				
	Body insulation	$V_{R} = 25V Vt = 100V (DC)$ $V_{R} = 50V Vt = 150V (DC)$				
Operating Temperature Range (°C)	-30 +85°C					
Climate Category	30 / 85 / 21					



TEMPERATURE COEFFICIENT – TYPICAL CURVES





PHENOLIC COATED – CAPACITANCE VS. DISC DIAMETER

millimeters (inches)

Class III	Δ C/C (max.) ±12%	Range -30 +85°C	∆ C/C (max.) +30 -65%	Range -30 +85°C	∆ C/C (max.) +30 -65%	Range -30 +85℃
Temp. Coefficient	Y5P		Y5U		Y5V	
Digits 1,2,3 of P.N.	5WF	5WH	5YF	5YH	5ZH	
Rated Voltage (V _R)	25 VDC	50 VDC	25 VDC	50 VDC	50 VDC	
C _R (pF)						
4,700	5.0 (0.197)	5.0 (0.197)	5.0 (0.197)	5.0 (0.197)	5.0 (0.197)	
10,000	6.0 (0.236)	6.0 (0.236)				
22,000	7.0 (0.276)	8.0 (0.315)		6.0 (0.236)		
33,000	8.0 (0.315) 9.0 (0.354)		6.0 (0.236)	7.0 (0.276)		
47,000	9.0 (0.354)	9.0 (0.334)		8.0 (0.315)		
50,000	9.0 (0.334)		7.0 (0.276)	0.0 (0.315)		
68,000	11.0 (0.433)	11.0 (0.433)		9.0 (0.354)	6.0 (0.236)	
100,000	11.0 (0.400)		8.0 (0.315)			
200,000					10.0 (0.3	394)

Note: Damp Heat Steady State: 90... 95% R.H. 40°C / 21 days. No voltage to be applied.



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