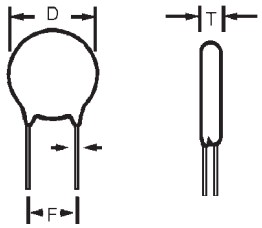
Disc Ceramic Capacitors

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).



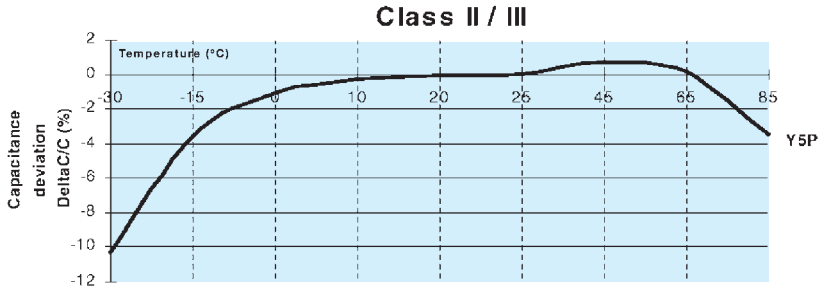
HOW TO ORDER

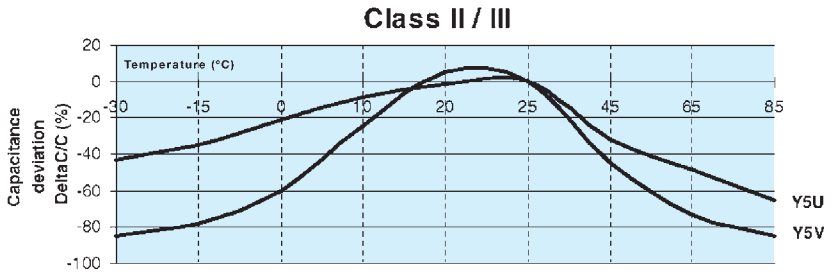
5Z	H	104	Z	A	C	A	A
Product Code	Voltage	Capacitance	Tolerance	Lead Forming	Capacitor Diameter	Finishing	Packaging

PERFORMANCE CHARACTERISTICS CLASS III

Measured at	1.0 kHz / 0.1 Vrms / 25ºC	
Dissipation Factor (%)	$C_R \leq 22$ nF → Y5V, Y5U ≤ 7.5% $C_R > 22$ nF → Y5V, Y5P ≤ 5.0%	
Tolerance	Y5P → ±20% / -20 +50% Y5U → ±20% / -20 +50% Y5V → -20% +50% / -20 +80%	
Insulation Resistance (IR)	Y5P	≥12 MΩ
	Y5U	4.7 nF...100 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 (ºC)	-30... +85ºC	
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... +85ºC	Δ C/C (max.) +30 -65%	Range -30... +85ºC	Δ C/C (max.) +30 -65%	Range -30... +85ºC
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)		7.0 (0.276)	8.0 (0.315)		
50,000					6.0 (0.236)	
68,000	11.0 (0.433)	11.0 (0.433)		9.0 (0.354)		
100,000			8.0 (0.315)			
200,000					10.0 (0.394)	

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

单击下面可查看定价，库存，交付和生命周期等信息

>>AVX