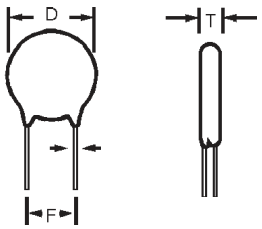
Disc Ceramic Capacitors

AC and Switch Mode Epoxy Coated

CAPACITORS FOR AC AND SWITCH MODE APPLICATIONS



These capacitors are made of a new dielectric compound specially developed for AC or switch mode circuits that can generate dielectric heat which is limiting factor on other ceramic disc capacitors.

This new series adds the advantages of class I (low loss factor) with the advantages of class II capacitors (small sizes and lower costs).

The capacitors are epoxy coated, flame retardant class UL 94-V0. They meet the standards of the telecom and data processing industry. They are particularly suited for TV deflection and power supply circuits.

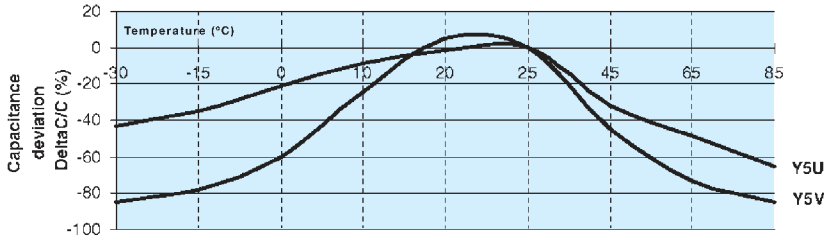
HOW TO ORDER

6L	S	102	K	A	F	C	A
Product Code	Voltage	Capacitance	Tolerance	Lead Forming	Capacitor Diameter	Finishing	Packaging

PERFORMANCE CHARACTERISTICS

Measured at	1.0 kHz / 0.3 Vrms / 25ºC				
Dissipation Factor (%)	6LR / 6LS / 6LT ≤ 0.5% 67S / 68S ≤ 0.8%				
Capacitance Tolerance	6LR ±10% ±20% -20 +50%	6LS ±10% ±20% -20 +50%	6LT ±10% ±20% -20 +50%	67S ±20% -20 +50%	68S -20 +50%
Insulation Resistance (IR)	@ 500V → ≥ 10 GΩ				
Dielectric Strength NOTE: Charging current limited to 50 mA	1.5 x V_R + 500 (DC) Between leads and body insulation				
dV/dt test	up to 3.5 kV/µsec				
Operating Temperature Range (ºC)	-40... +125ºC				
Climatic Category	30 / 85 / 56 Epoxy Coated				
Max. Temp. rise on the external surface of the capacitor related to ambient	Measured at 20mm from the capacitor	Tmax celsius ← Tamb celsius, 20 mm		Tmax. = Tamb + 20ºC	

TEMPERATURE COEFFICIENT – TYPICAL CURVES



CERTIFICATION BODY APPROVALS

	Standard	6LR		6LS		67S	
		Certificate Number	Rated Voltage	Certificate Number	Rated Voltage	Certificate Number	Rated Voltage
UL	UL 1414	E 147842	250 VAC	E 147842	250 VAC	E 147842	250 VAC

APPROVED LOGOS

UL

CAPACITANCE VS. DISC DIAMETER

millimeters (inches)

Temp. Coefficient	Y5P			Y5U	Y5V
Digits 1, 2, 3 of P.N.	6LR	6LS	6LT	67S	68S
Rated Voltage (V_R)	1000 VDC 130 VAC	2000 VDC 250 VAC	3000 VDC 380 VAC	2000 VDC 250 VAC	2000 VDC 250 VAC
C_R (pF)					
100	6.0 (0.236)	6.0 (0.236)			
120					
150					
180					
220			6.0 (0.236)		
270			8.0 (0.315)		
330	7.0 (0.276)				
390					
470		8.0 (0.315)			
560			9.0 (0.354)		
680		9.0 (0.354)	10.0 (0.394)		
820	8.0 (0.315)				
1000		10.0 (0.394)		8.0 (0.315)	
1200			12.0 (0.472)		
1500	11.0 (0.394)	12.0 (0.472)			
1800			14.0 (0.551)		
2200		14.0 (0.551)		9.0 (0.354)	
2700	14.0 (0.551)		16.0 (0.630)		
3300		16.0 (0.630)		10.0 (0.394)	
3900	16.0 (0.630)	19.0 (0.748)	19.0 (0.748)		
4700				12.0 (0.472)	8.0 (0.315)
10000				14.0 (0.551)	11.0 (0.433)