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Disc Ceramic Capacitors

Safety Ceramic Capacitors

DEFINITIONS (IEC 384-14 1993)

X FUNCTION: applications where the capacitor failure does not lead to danger of electrical shock. There are three subclasses related to the peak voltage of the impulses superimposed to the mains voltage:

Subclass X1: impulses up to 4000V

Subclass X2: impulses up to 2500V

Subclass X3: impulses up to 1200V

Y FUNCTION: applications where the capacitor failure may lead to danger of electrical shock. There are four subclasses related to the peak voltage of the impulses applied before the life test:

Subclass Y1: impulses up to 8000V

Subclass Y2: impulses up to 5000V

Subclass Y3: rated 250Vac without impulses

Subclass Y4: impulses up to 2500V

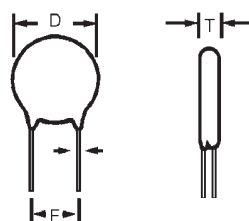
ANTENNA: the capacitors are used to decouple the antenna leads of video and audio equipment, whose failure may lead to danger of electrical shock.

TPC Safety Capacitors:

61V (GZO): meets subclasses X1, Y1 Test voltage 4000 VAC

62O (GKO): meets subclasses X1, Y2 Test voltage 2500 VAC

65N (GAY): meets subclasses X2, Y3 Test voltage 1800 VAC



HOW TO ORDER

61	V	101	K	B	D	C	A
Product Code	Voltage	Capacitance	Tolerance	Lead Forming	Capacitor Diameter	Finishing	Packaging

PERFORMANCE CHARACTERISTICS

	61V	62O	65N
Measured at	1.0 kHz / 0.3 Vrms / 25°C	1.0 kHz / 0.3 Vrms / 25°C	1.0 kHz / 0.3 Vrms / 25°C
Capacitance Tolerance	±20% / -20 +50%	±20% / -20 +50%	±20% / -20 +50%
D.F max. @ 25°C	1.5%	1.5%	1.5%
Insulation Resistance (IR)	≥ 10 GΩ	≥ 10 GΩ	≥ 10 GΩ
Test Voltage Between Leads*	4.000 VAC	2.500 VAC	1.800 VAC
Test Voltage Leads to Body	4.000 VAC	2.500 VAC	1.800 VAC
Operating Temperature Range (°C)	-40 +125	-40 +125	-40 +125

* Main reference voltage

CERTIFICATION BODY APPROVALS

	Standard	61V			62O			65N		
		Certificate Number	Rated Voltage	Climatic Category	Certificate Number	Rated Voltage	Climatic Category	Certificate Number	Rated Voltage	Climatic Category
UL	UL 1414	E 147842 (N)	250 VAC		E 147842 (N)	250 VAC		E 147842 (N)	250 VAC	-
CAS	CAN/CSA - C22.2 No. 1-94	LR 100430-2	250 VAC		LR 100430-1	250 VAC		-	-	-
VDE	DIN BDE 0560 Part 2	-	-	40/85/21/C	76830 76804	400 VAC	25/85/21	-	-	-
	DIN EN 132400: 1995	94612 94610 94634	X1: 400 VAC Y1: 250 VAC		101384	X1: 400 VAC Y1: 250 VAC	40/85/21/C	-	-	-
	IEC 384-14: 1993									
IMQ	EN 132400: 1994 IEC 384-14: 1993	V4551	X1: 400 VAC Y1: 250 VAC	40/125/21/C	V4635	X1: 400 VAC Y2: 250 VAC	40/125/21/C	-	-	-

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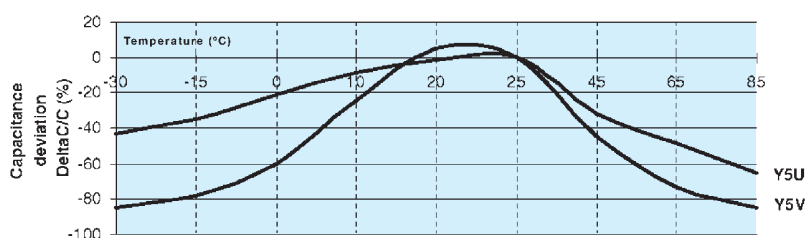
Safety Ceramic Capacitors Epoxy Coated



CAPACITANCE VS. DISC DIAMETER

Digits 1, 2, 3 of P.N. C _R (pF)	61V	62O	65N	
33	6.0 (0.236)	6.0 (0.236)		
39				
47				
56				
68				
82	7.0 (0.276)			
100				
120				
150				
180				
220				
270				
330	8.0 (0.315)	6.0 (0.236)		
390				
470				
560		7.0 (0.276)		
680				
820				
1000	8.0 (0.315)	8.0 (0.315)		
1200				
1500	10.0 (0.394)	10.0 (0.394)		
1800	11.0 (0.433)			
2200	12.0 (0.472)	12.0 (0.472)		
2700	14.0 (0.551)	14.0 (0.551)		
3300	16.0 (0.630)			
3900				
4700				
8200				
10000	19.0 (0.748)	16.0 (0.630)	16.0 (0.630)	
20000				

TEMPERATURE COEFFICIENT – TYPICAL CURVES



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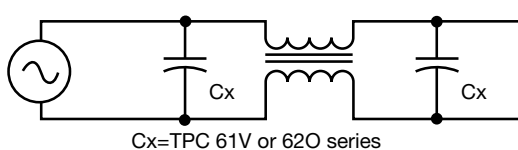


APPROVED LOGOS

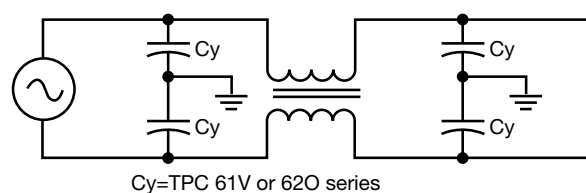


TYPICAL APPLICATION FOR SAFETY CERAMIC DISCS AND SWITCH MODE

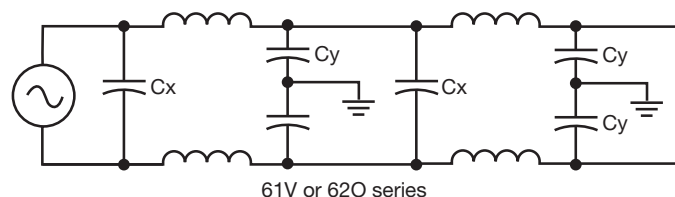
Across the line capacitors for noise suppression



Line by-pass for noise suppression



Typical X and Y function application



Protection and suppression of a motor (X and Y function)

