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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

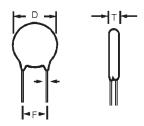
Subclass Y3: rated 250Vac without impulses

Subclass Y4: impulses up to 2500V

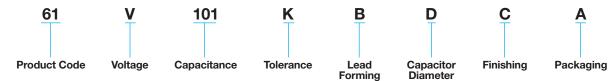
ANTENNA: the capacitors are used to decouple the antenna leads of video and audio equipment, whose failure may lead to danger of electrical shock.

TPC Safety Capacitors:

61V (GZO): meets subclasses X1, Y1 Test voltage 4000 VAC 620 (GKO): meets subclasses X1, Y2 Test voltage 2500 VAC 65N (GAY): meets subclasses X2, Y3 Test voltage 1800 VAC



HOW TO ORDER



PERFORMANCE CHARACTERISTICS

	61V	620	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

		61V		620		65N				
	Standard	Certificate	Rated	Climatic	Certificate	Rated	Climatic	Certificate	Rated	Climatic
		Number	Voltage	Category	Number	Voltage	Category	Number	Voltage	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		-	_	-
	DIN BDE 0560 Part 2	-	-		76830 76804	400 VAC	25/85/21	-	-	-
VDE	DIN EN 132400: 1995 IEC 384-14: 1993	94612 94610 94634	X1: 400 VAC Y1: 250 VAC	40/85/21/C	101384	X1: 400 VAC Y1: 250 VAC	40/85/21/C	-	-	-
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	40/125/21C	-	-	-



Disc Ceramic Capacitors

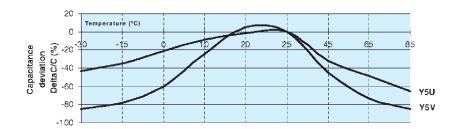


Safety Ceramic Capacitors Epoxy Coated

CAPACITANCE VS. DISC DIAMETER

Digits 1, 2, 3 of P.N. C _R (pF)	61 V	620	65N	
33 39 47 56	6.0 (0.236)			
68 82 100 120 150 180 220	7.0 (0.276)	6.0 (0.236)		
270 330 390 470 560		8.0 (0.315)	6.0 (0.236) 7.0 (0.276)	
680 820 1000 1200	8.0 (0.315)	7.0 (0.276)	8.0 (0.315)	
1500 1800 2200	10.0 (0.394) - 11.0 (0.433)	10.0 (0.394)	9.0 (0.354)	
2700 3300 3900 4700	12.0 (0.472) - 14.0 (0.551) 16.0 (0.630)	12.0 (0.472) 14.0 (0.551)	10.0 (0.394) 12.0 (0.472)	
8200 10000 20000	19.0 (0.748)	16.0 (0.630)	16.0 (0.630)	

TEMPERATURE COEFFICIENT - TYPICAL CURVES



Disc Ceramic Capacitors



Safety Ceramic Capacitors Epoxy Coated

APPROVED LOGOS



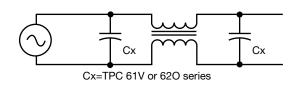




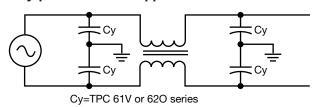


TYPICAL APPLICATION FOR SAFETY CERAMIC DISCS AND SWITCH MODE

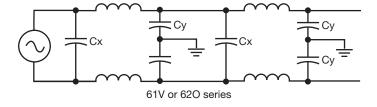
Across the line capacitors for noise suppression



Line by-pass for noise suppression



Typical X and Y function application



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

