

X Type Across-The-Line Filter Disc Ceramic Capacitors



- UL Recognized
UL 1414, File E38785
- CSA Certified
CSA 22.2#1, File LR33468
- VDE Recognized
Specification 57-565-1
Files: 13751-4670-1002/A1B
13971-4670-1001/A2E

* For other X Type capacitors, see our 158X Film Capacitors on page 168

GENERAL SPECIFICATIONS

Temperature Coefficient: Z5U
 Voltage Range: 125 VAC or 2000 VDC
 Capacitance Range: .001 μ F to .01 μ F
 Capacity Tolerance: \pm 20%
 Dielectric Strength: 3250 vrms minimum for 2 minutes
 Lead Material: Tin Plated Copper

Dissipation Factor: 2.5% Max at 25°C
 Operating Temperature: +10°C to +85°C
 Case Breakdown: > 1000 VAC (RMS) at 60Hz for 1 minute
 Insulation Resistance: 10K megohms @ 25°C
 Discharge Tests: 220 VAC @ 85°C for 42 days, then cycle at 1/10 sec/hr. for 42 days at 440 VAC 50% humidity

Capacity μ F	Tol	Size (Inches)				Size (Millimeters)				Catalog Number
		D	T	S	d	D	T	S	d	
125 VAC (rms) / 2000 VDC										
.001	20%	.472	.315	.375	.032	12.0	8.0	9.5	.8	UN102M
.0015	20%	.472	.315	.375	.032	12.0	8.0	9.5	.8	UN152M
.002	20%	.472	.315	.375	.032	12.0	8.0	9.5	.8	UN202M
.003	20%	.590	.315	.375	.032	15.0	8.0	9.5	.8	UN302M
.0047	20%	.748	.315	.375	.032	19.0	8.0	9.5	.8	UN472M

Capacity μ F	Tol	Size (Inches)				Size (Millimeters)				Catalog Number
		D	T	S	d	D	T	S	d	
125 VAC (rms) / 2000 VDC										
.005	20%	.748	.315	.375	.032	19.0	8.0	9.5	.8	UN502M
.0068	20%	.787	.315	.375	.032	20.0	8.0	9.5	.8	UN682M
.01	20%	.905	.315	.500	.032	23.0	8.0	12.7	.8	UN103M
.01	20%	.905	.315	.375	.032	23.0	8.0	9.5	.8	UN103MS

X1-Y1 Type Across-The-Line, Antenna Coupling & Line By Pass Disc Ceramic Capacitors



- UL Recognized
UL 1283, UL 1414 File E89615
- CSA Certified
CSA 22.2#1, File LR701398
- VDE Certified
Files: 95414, 95415, 95416
- SEV Certified
Files: 96, 5 50522, 06
- SEMKO Certified
File: 9612104-01
- NEMKO Certified
File: P96101248
- DEMKO Certified
File: 305416
- FIMKO Certified
File: 190124-01

GENERAL SPECIFICATIONS

Temperature Coefficient: Y5U
 Voltage Range: 250 VAC
 Capacitance Range: 100 pF to .01 μ F
 Capacity Tolerance: \pm 10%, \pm 20%
 Dielectric Strength: 4000 vrms minimum for 1 minute
 Dissipation Factor: 2.0% Max
 Operating Temperature: -30°C to +85°C

Capacity pF	Tol	Size (Inches)				Size (Millimeters)				Catalog Number
		D	T	S	d	D	T	S	d	
250 VAC										
100	10%	.331	.220	.375	.031	8.4	5.6	9.5	.8	UXY101K
150	10%	.331	.236	.375	.031	8.4	6.0	9.5	.8	UXY151K
220	10%	.331	.236	.375	.031	8.4	6.0	9.5	.8	UXY221K
330	10%	.331	.224	.375	.031	8.4	5.7	9.5	.8	UXY331K
470	10%	.331	.228	.375	.031	8.4	5.8	9.5	.8	UXY471K
560	10%	.331	.228	.375	.031	8.4	5.8	9.5	.8	UXY561K
680	20%	.331	.236	.375	.031	8.4	6.0	9.5	.8	UXY681M
1000	20%	.402	.240	.375	.031	10.2	6.1	9.5	.8	UXY102M
1500	20%	.461	.236	.375	.031	11.7	6.0	9.5	.8	UXY152M
2200	20%	.461	.228	.375	.031	11.7	5.8	9.5	.8	UXY222M
3300	20%	.559	.236	.375	.031	14.2	6.0	9.5	.8	UXY332M
3900	20%	.618	.232	.375	.031	15.7	5.9	9.5	.8	UXY392M
4700	20%	.681	.228	.375	.031	17.3	5.8	9.5	.8	UXY472M
5000	20%	.681	.230	.375	.031	17.3	5.8	9.5	.8	UXY502M
6800	20%	.790	.235	.375	.031	20.1	6.0	9.5	.8	UXY682M
.01 μ F	20%	.902	.230	.375	.031	22.9	5.8	9.5	.8	UXY103M

Disc Ceramic Capacitors