

# X Type Across-The-Line Filter Disc Ceramic Capacitors

**MALLORY**



- 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  $\mu$ F to .01  $\mu$ 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 $\mu$ F	Tol	Size (Inches)				Size (Millimeters)				Catalog Number
D	T	S	d	D	T	S	d			
<b>125 VAC (rms) / 2000 VDC</b>										
.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 $\mu$ F	Tol	Size (Inches)				Size (Millimeters)				Catalog Number
D	T	S	d	D	T	S	d			
<b>125 VAC (rms) / 2000 VDC</b>										
.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  $\mu$ 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			
<b>250 VAC</b>										
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 $\mu$ F	20%	.902	.230	.375	.031	22.9	5.8	9.5	.8	UXY103M