

# 158X Series Type X2 Suppressor Capacitors

## Metallized Polyester / Radial Leads



- Radial Leads in Two Lengths
- UL-1414 and CSA Approved
- Flame Retardant Case Meets UL94V-0
- Potting End Fill Meets UL94V-0
- Used in applications where damage to the capacitor will not lead to the danger of electrical shock
- Lead Material Tinned Copper Clad Steel

## GENERAL SPECIFICATIONS

Operating Temperature: -40 °C to +100 °C  
 Voltage Range: 275/250 VAC, 60 Hz  
 Capacitance Range: 0.01  $\mu$ F to 2.2  $\mu$ F  
 Capacitance Tolerance:  $\pm$ 20% (Standard)  $\pm$ 10% (Special)  
 Dissipation Factor (DF)  $\text{tg}\delta$  0.01 Max at 1,000  $\pm$  100kHz

Insulation Resistance (IR) (@ 500 VDC and 20 °C)  
 Terminal to Terminal:  
 $\leq 0.33\mu\text{F}$  15,000  $\text{M}\Omega$  min  
 $\geq 0.47\mu\text{F}$  5,000  $\text{M}\Omega \times \mu\text{F}$  min  
 Both Terminals to Body:  
 100,000  $\text{M}\Omega$  min

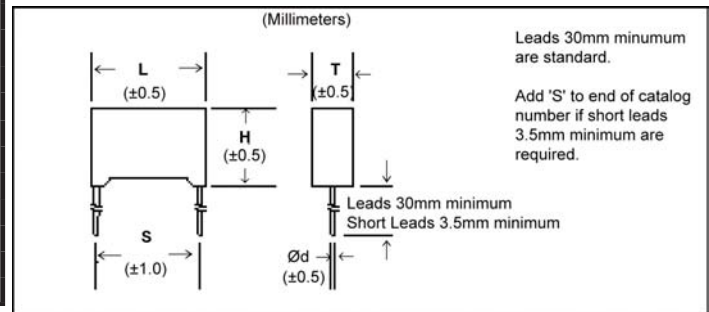
### Maximum Pulse Rise Time

$\mu\text{F}$	V/ $\mu\text{s}$	$\mu\text{F}$	V/ $\mu\text{s}$
.010	2800	0.22	1200
.022	2400	0.47	1000
.033	2400	0.68	1000
.047	2000	1.00	800
.068	2000	1.50	800
.100	1600	2.20	600

## International Approvals

Safety Agency	Standard	File Number
UL	UL-1414 (250VAC)	E171988
UL	UL-1283 (250VAC)	E223166
CSA	C22 2, No. 1-98/No.8 (250VAC)	1572961
VDE	IEC384-14 II EN 132400	109365
SEMKO	IEC384-14 II EN 132400	9817262
FIMKO	IEC384-14 II EN 132400	11141
DEMKO	IEC384-14 II EN 132400	9817262
NEMKO	IEC384-14 II EN 132400	P98101124

## Outline Dimensions



## Ratings

## RoHS Compliant

Catalog Part Number	Cap ( $\mu\text{F}$ )	Inches					Millimeters					
		L Length	T Thickness	H Height	S Spacing	$\text{Ød}$	L Length	T Thickness	H Height	S Spacing	$\text{Ød}$	
158X103	0.010	0.669	0.197	0.472	0.591	0.024	17.0	5.0	12.0	15.0	0.6	
158X123	0.012	0.669	0.197	0.472	0.591	0.024	17.0	5.0	12.0	15.0	0.6	
158X153	0.015	0.669	0.197	0.472	0.591	0.024	17.0	5.0	12.0	15.0	0.6	
158X183	0.018	0.669	0.197	0.472	0.591	0.024	17.0	5.0	12.0	15.0	0.6	
158X223	0.022	0.669	0.197	0.472	0.591	0.024	17.0	5.0	12.0	15.0	0.6	
158X273	0.027	0.669	0.197	0.472	0.591	0.024	17.0	5.0	12.0	15.0	0.6	
158X333	0.033	0.669	0.197	0.472	0.591	0.024	17.0	5.0	12.0	15.0	0.6	
158X393	0.039	0.669	0.217	0.492	0.591	0.031	17.0	5.5	12.5	15.0	0.8	
158X473	0.047	0.669	0.217	0.492	0.591	0.031	17.0	5.5	12.5	15.0	0.8	
158X563	0.056	0.669	0.256	0.531	0.591	0.031	17.0	6.5	13.5	15.0	0.8	
158X683	0.068	0.669	0.256	0.531	0.591	0.031	17.0	6.5	13.5	15.0	0.8	
158X823	0.082	0.669	0.256	0.591	0.591	0.031	17.0	6.5	15.0	15.0	0.8	
158X104	0.100	0.669	0.315	0.591	0.591	0.031	17.0	8.0	15.0	15.0	0.8	
158X124	0.120	0.984	0.256	0.630	0.886	0.031	25.0	6.5	16.0	22.5	0.8	
158X154	0.150	0.984	0.256	0.630	0.886	0.031	25.0	6.5	16.0	22.5	0.8	
158X184	0.180	0.984	0.315	0.689	0.886	0.031	25.0	8.0	17.5	22.5	0.8	
158X224	0.220	0.984	0.315	0.689	0.886	0.031	25.0	8.0	17.5	22.5	0.8	
158X274	0.270	1.181	0.354	0.669	1.083	0.031	30.0	9.0	17.0	27.5	0.8	
158X334	0.330	0.984	0.394	0.768	0.886	0.031	25.0	10.0	19.5	22.5	0.8	
158X394	0.390	1.181	0.433	0.866	1.083	0.031	30.0	11.0	22.0	27.5	0.8	
158X474	0.470	1.181	0.433	0.866	1.083	0.031	30.0	11.0	22.0	27.5	0.8	
158X564	0.560	1.181	0.531	0.965	1.083	0.031	30.0	13.5	24.5	27.5	0.8	
158X684	0.680	1.181	0.531	0.965	1.083	0.031	30.0	13.5	24.5	27.5	0.8	
158X824	0.820	1.201	0.630	1.102	1.083	0.039	30.5	16.0	28.0	27.5	1.0	
158X105	1.000	1.201	0.591	0.965	1.083	0.039	30.5	15.0	24.5	27.5	1.0	
158X125	1.200	1.614	0.610	1.102	1.476	0.039	41.0	15.5	28.0	37.5	1.0	
158X155	1.500	1.614	0.610	1.102	1.476	0.039	41.0	15.5	28.0	37.5	1.0	
158X185	1.800	1.614	0.689	1.280	1.476	0.039	41.0	17.5	32.5	37.5	1.0	
158X225	2.200	1.614	0.689	1.280	1.476	0.039	41.0	17.5	32.5	37.5	1.0	

NOTE: If  $\pm$ 10% tolerance is required, add 'K' to end of Catalog Number

NOTE: Parts are normally supplied with leads 30mm minimum

To order short leads, 3.5mm minimum length, add 'S' to end of Catalog Part Number.