

# 158X Series Type X2 Suppressor Capacitors



## Metallized Polyester / Radial Leads



- Radial Leads in Two Lengths
- UL 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

## Specifications

Capacitance Range	0.01 $\mu$ F to 2.2 $\mu$ F																												
Capacitance Tolerance	$\pm$ 20% (Standard), $\pm$ 10% (Special)																												
Rated Voltage	275/250 VAC, 60 Hz																												
Operating Temperature Range	-40 °C to +100 °C																												
Test Voltage	Terminal to Terminal: 1,250 Vac, 50/60Hz / 60 Sec. Terminals to Case: 2,000 Vac, 50/60Hz / 60 Sec.																												
Dissipation Factor +25 °C	tg $\delta$ 0.01 Max at 1kHz $\pm$ 10Hz																												
Insulation Resistance	(@ 500 VDC and 20 °C)																												
Terminal to Terminal	$\leq$ 0.33 $\mu$ F 15,000 M $\Omega$ min $\geq$ 0.47 $\mu$ F 5,000 M $\Omega$ x $\mu$ F min																												
Both Terminals to Body	100,000 M $\Omega$ min																												
Maximum Pulse Rise Time	<table border="1"> <thead> <tr> <th><math>\mu</math>F</th> <th>V/<math>\mu</math>s</th> <th><math>\mu</math>F</th> <th>V/<math>\mu</math>s</th> </tr> </thead> <tbody> <tr> <td>.010</td> <td>2800</td> <td>0.22</td> <td>1200</td> </tr> <tr> <td>.022</td> <td>2400</td> <td>0.47</td> <td>1000</td> </tr> <tr> <td>.033</td> <td>2400</td> <td>0.68</td> <td>1000</td> </tr> <tr> <td>.047</td> <td>2000</td> <td>1.00</td> <td>800</td> </tr> <tr> <td>.068</td> <td>2000</td> <td>1.50</td> <td>800</td> </tr> <tr> <td>.100</td> <td>1600</td> <td>2.20</td> <td>600</td> </tr> </tbody> </table>	$\mu$ F	V/ $\mu$ s	$\mu$ F	V/ $\mu$ 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
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## Regulatory Information

## Ratings

Catalog Part Number	Cap ( $\mu$ F)	Inches					Millimeters				
		L Length	T Thickness	H Height	S Spacing	$\phi$ d	L Length	T Thickness	H Height	S Spacing	$\phi$ d
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	0.630	1.102	1.083	0.039	30.5	16.0	28.0	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

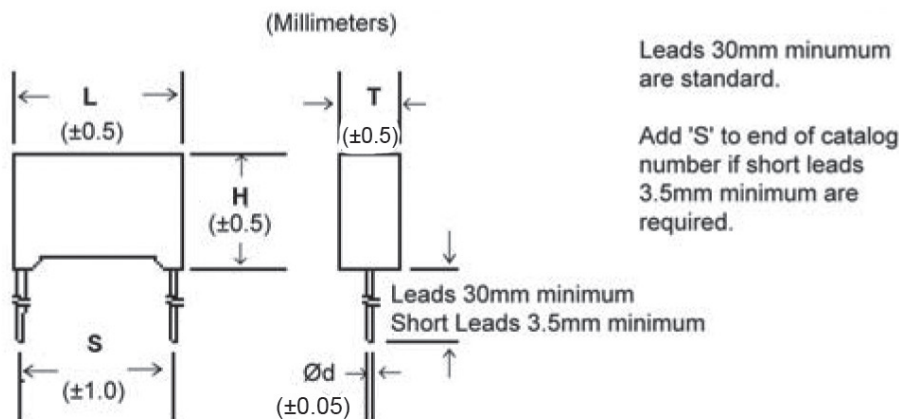
To order short leads, 3.5mm minimum length, add 'S' to end of Catalog Part Number.

# 158X Series Type X2 Suppressor Capacitors



## Outline Dimensions

## Agency Approvals



Safety Agency	Standard	File Number
UL	UL-60384-14	E171988
CSA	C22 2, No.1-98/ No.8 (250VAC)	1572961
VDE	EN 60384-14	40018720
NEMKO	EN 60384-14	P22226049

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