

# 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																												
Dissipation Factor +25 °C	$\text{tg}\delta$ 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
$\mu$ 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																										
<b>RoHS Compliant</b>																													

## Ratings

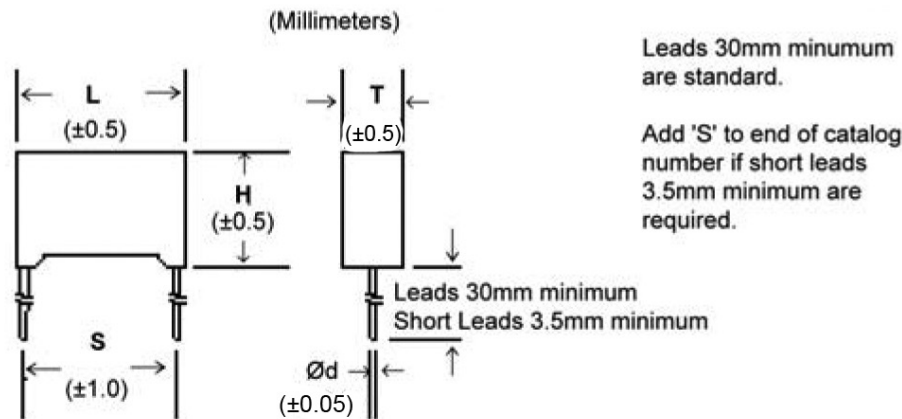
Catalog Part Number	Cap ( $\mu$ F)	Inches						Millimeters					
		L Length	T Thickness	H Height	S Spacing	$\varnothing$ d	L Length	T Thickness	H Height	S Spacing	$\varnothing$ d		
158X103	0.010	0.669	0.197	0.472	0.591	0.024	17.0	5.0	12.0	15.0	0.6		
158X123	0.012	0.669	0.197	0.472	0.591	0.024	17.0	5.0	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
SEMKO	EN 60384-14	1112778
NEMKO	EN 60384-14	P10213462

**Notice and Disclaimer:** All product drawings, descriptions, specifications, statements, information and data (collectively, the "Information") in this datasheet or other publication are subject to change. The customer is responsible for checking, confirming and verifying the extent to which the Information contained in this datasheet or other publication is applicable to an order at the time the order is placed. All Information given herein is believed to be accurate and reliable, but it is presented without any guarantee, warranty, representation or responsibility of any kind, expressed or implied. Statements of suitability for certain applications are based on the knowledge that the Cornell Dubilier company providing such statements ("Cornell Dubilier") has of operating conditions that such Cornell Dubilier company regards as typical for such applications, but are not intended to constitute any guarantee, warranty or representation regarding any such matter – and Cornell Dubilier specifically and expressly disclaims any guarantee, warranty or representation concerning the suitability for a specific customer application, use, storage, transportation, or operating environment. The Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by Cornell Dubilier with reference to the use of any Cornell Dubilier products is given gratis (unless otherwise specified by Cornell Dubilier), and Cornell Dubilier assumes no obligation or liability for the advice given or results obtained. Although Cornell Dubilier strives to apply the most stringent quality and safety standards regarding the design and manufacturing of its products, in light of the current state of the art, isolated component failures may still occur. Accordingly, customer applications which require a high degree of reliability or safety should employ suitable designs or other safeguards (such as installation of protective circuitry or redundancies or other appropriate protective measures) in order to ensure that the failure of an electrical component does not result in a risk of personal injury or property damage. Although all product-related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicated in such warnings, cautions and notes, or that other safety measures may not be required.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Cornell Dubilier:

[158X473](#) [158X474](#) [158X153](#) [158X104](#) [158X103](#) [158X105](#) [158X684](#) [158X333](#) [158X334](#) [158X225](#) [158X223](#)  
[158X224](#) [158X104K](#) [158X155](#) [158X154](#) [158X683](#) [158X105K](#) [158X104S](#) [158X224K](#) [158X473-PB](#)