# **158X Series Type X2 Suppressor Capacitors**

### **Metallized Polyester / Radial Leads**

- Radial Leads
- in Two Lengths
- UL-1414 and CSA ApprovedFlame 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: ±20% (Standard) ±10% (Special) Dissipation Factor (DF) tg\delta 0.01 Max at 1,000 ± 100kHz Insulation Resistance (IR) (@ 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

μF	V/µs	μF	V/µs				
.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				

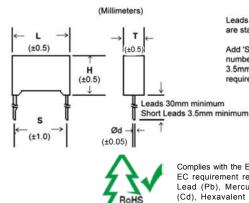
Leads 30mm minumum are standard.

Add 'S' to end of catalog number if short leads

3.5mm minimum are required.

## 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	109365		
	EN 132400			
SEMKO	IEC384-14 II	9817262		
SEIVIKO	EN 132400	9617202		
FIMKO	IEC384-14 II	11141		
FINKO	EN 132400	11141		
DEMKO	IEC384-14 II	9817262		
DEWIKO	EN 132400	9017202		
NEMKO	IEC384-14 II	P98101124		
INEIVIKU	EN 132400	P98101124		



Compliant

**Outline Dimensions** 

Complies with the EU Directive 2002/95/ EC requirement restricting the use of Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent chromium (Cr(VI)), PolyBrominated Biphenyls (PBB) and PolyBrominated Diphenyl Ethers (PBDE).

## **Ratings**

			Inches			Millimeters					
Catalog Cap Part Number (µF)	L Length	T Thickness	H Height	S Spacing	Ød	L Length	T Thickness	H Height	S Spacing	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	0.630	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 ±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.

CDE Cornell Dubilier • 1605 E. Rodney French Blvd. • New Bedford, MA 02744 • Phone: (508)996-8561 • Fax: (508)996-3830 • www.cde.com

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