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

1112778

P10213462

GENERAL **SPECIFICATIONS**

Operating Temperature: -40 °C to +100 °C Voltage Range: 275/250 VAC, 60 Hz Capacitance Range: 0.01 µF to 2.2 µF Capacitance Tolerance: ±20% (Standard) ±10% (Special) Dissipation Factor (DF) tg δ 0.01 Max at 1,000 ± 100kHz

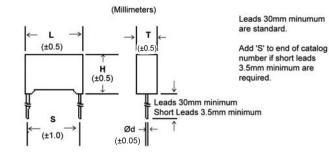
RoHS Compliant

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

EN 60384-14

EN 60384-14

Agency Approvals



Outline Dimensions

Ratings

SEMKO

NEMKO

| | | | | Inches | | | | | Millimeters | | |
|------------------------|-------------|-------------|----------------|-------------|--------------|-------|-------------|----------------|-------------|--------------|-----|
| Catalog Part Number | Cap (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.

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Insulation Resistance (IR) (@ 500 VDC and 20 °C) Terminal to Terminal: ≤0.33µF 15,000 MΩ min ≥0.47µF 5,000 MΩ x µF min Both Terminals to Body: 100,000 M Ω min

Maximum Pulse Rise Time

| 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 | | | | | | | |

158X Series Type X2 Suppressor Capacitors

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