

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 μ F to 2.2 μ 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

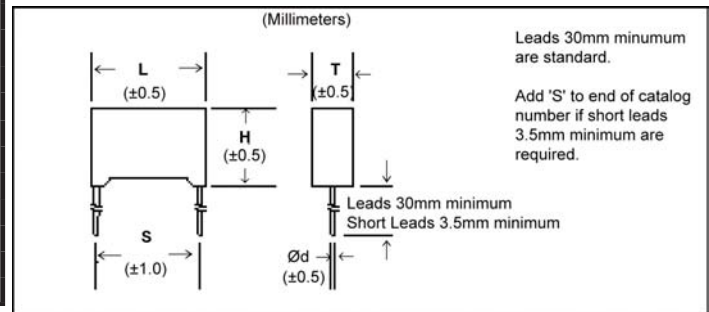
Maximum Pulse Rise Time

| 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 |

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 (μF) | Inches | | | | | Millimeters | | | | | |
|---------------------|-----------------------|----------|-------------|----------|-----------|-------------|-------------|-------------|----------|-----------|-------------|--|
| | | 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 | 0.591 | 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.