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Jameco Part Number 528008

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
- Polyurethane 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 (275VAC International)
 Capacitance Range: 0.01 μ F to 2.2 μ F
 Capacitance Tolerance: \pm 20% (Standard) \pm 10% (Special)
 Dissipation Factor (DF) 0.01 Max at 1000 \pm 10Hz

Insulation Resistance (IR) (@ 500 VDC and 20°C)
 Terminal to Terminal:
 \leq 0.33 μ F 15,000 M Ω min
 \geq 0.47 μ F 5,000 M Ω x μ F min
 Both Terminals to Body:
 100,000 M Ω min

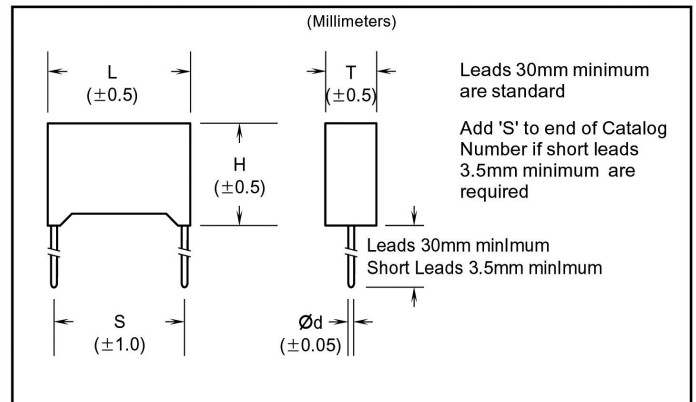
Maximum Pulse Capability

| μ F | V/ μ s | μ F | V/ μ 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 |

International Approvals

| Safety Agency | Standard | File Number |
|---------------|-----------------------------|-----------------|
| UL | UL-1414 (250VAC) | E151554 |
| UL | UL-1238 (250VAC) | E151553 |
| CSA | C22 2, No. 8-M1986 (250VAC) | LR37404-33M |
| VDE | IEC384-14 II EN 132400 | 18022-4670-1700 |
| SEMKO | IEC384-14 II EN 132400 | 9308002 |
| SEV | IEC384-14 II EN 132400 | 92.552158.01 |
| EI | IEC384-14 II EN 132400 | 164090-01 |
| DEMKO | IEC384-14 II EN 132400 | 112398EC/121 |
| NEMKO | IEC384-14 II EN 132400 | M70107 |

Outline Dimensions



Ratings and Dimensions

| Catalog Part Number | Cap μ 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 | |

NOTE: If \pm 10% tolerance is required, add 'K' to end of Catalog Part 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

| Catalog Part Number | Cap μ F | Inches | | | | | Millimeters | | | | |
|---------------------|-------------|-------------|----------------|-------------|--------------|-----------------|-------------|----------------|-------------|--------------|-----------------|
| | | L Length | T Thickness | H Height | S Spacing | \varnothing d | L Length | T Thickness | H Height | S Spacing | \varnothing d |
| 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 Part 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.