

BROADBAND

EMI FILTERS "C" TYPE

GENERAL SPECIFICATIONS

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| Capacitance / Tolerance: | Measured @ 1 KHz and .1-1 Vrms, 25°C / -0% +100% |
| Dissipation Factor: | 2.5% max @ 1 KHz and .1-1 Vrms, 25°C |
| Insulation Resistance: | 100 GΩ or 1000 MΩ -mF, whichever is less @ 25°C, WVDC |
| Working Voltage: | 50 VDC to 400 VDC and 125 to 240 VAC, 400Hz |
| Dielectric Withstanding Voltage: | 250 % of WVDC min. @ 25°C for 5±1 sec, 50 mA max chg. Current |
| Volt-Temperature Limit: | +10% -30% @ WVDC and -55°C to +125°C |
| Current Rating: | 10 Amp and 15 Amp |
| DC Resistance: | .005Ω max. |
| Insertion Loss: | Measured per Mil-STD-220, IL between any two adjacent specified frequencies shall be that of the lower of the two frequencies in order to accommodate resonant dips. |
| Operating Temperature: | -55°C to +125°C |
| Storage Temperature: | -65°C to +150°C |
| Materials: Case | Brass, ½ hard per QQ-B-626 (composition #22) or CRS Iron-nickel alloy (alloy 52) per ASTM F-30 |
| Terminals | |
| Finish: Case | Silver per QQ-S-365 / Gold or Tin-Lead Optional |
| Terminals | Silver per QQ-S-365 / Gold or Tin-Lead Optional |
| Applicable MIL Specifications: | Mil-F-28861 / Mil-F-15733 / Mil-C-83439 |
| Environmental Test Spec: | Mil-STD-202 |
| Thermal Shock: | Method 107, Condition A except step 3 @ 125°C |
| Immersion: | Method 104, Condition A (Hermetic devices only) |
| Salt Spray: | Method 101, Condition B |
| Moisture Resistance: | Method 106 (Hermetic devices only) |
| Barometric Pressure: | Method 105, Condition B |
| Resistance to Soldering Heat: | Method 210, Condition B |
| Seal: | Method 112, Condition A / Hermetically sealed parts only |
| Vibration: | Method 204, Condition D |
| Shock: | Method 213, Condition I |
| Terminal Strength: | Method 211, Condition A |
| Solderability: | Method 208 |
| Life: | Method 108, Condition D |

Marking per Mil-STD-130

Filter body size permitting:

PA&E logo
PA&E part number
Date code

INSTALLATION GUIDE

Although PA&E filters are rugged with excellent resistance to physical damage, good working practices should be utilized in the installation process to avoid possible post-installation problems.

1) Maximum recommended mounting torque should be applied to the nut only and observed as follows:

| | | | | | | | |
|--------------|------------|------------|------------|--------------|--------------|--------------|--------------|
| Thread size | 0-80 | 2-56 | 4-40 UNC | 8-32 UNC | 12-32 UNC | 1/4-28 UNF | 5/16-24 UNF |
| Mount torque | 10 in. oz. | 18 in. oz. | 3 in. lbs. | 3-5 in. lbs. | 6-8 in. lbs. | 7-9 in. lbs. | 7-9 in. lbs. |

2) Avoid bending or flexing terminals at the point of exit from the glass or epoxy seal to preserve the integrity of the seal and/or ceramic capacitor.

3) Solder connections to the terminals should be performed with temperatures not exceeding 230°C, placing a heat sink between soldering point and filter body whenever possible.