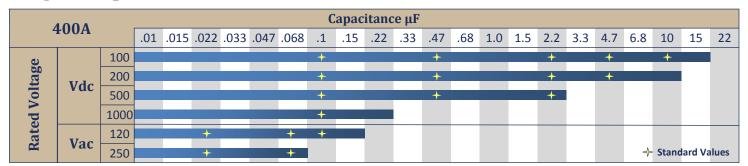


High Current DC Feedthrough Filter 400 Amp

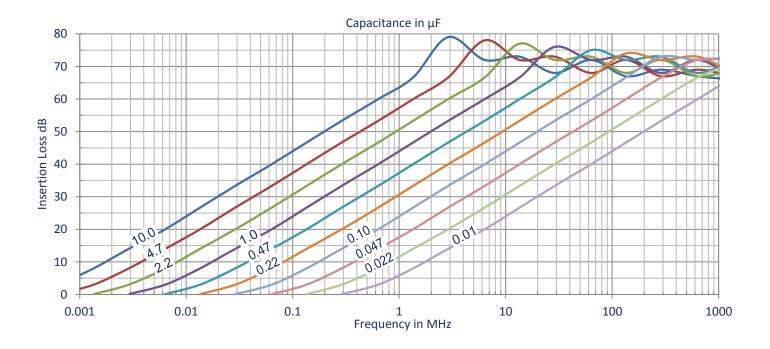


- ✓ Excellent EMI filtering
- ✓ Compact and lightweight
- ✓ "C" Type Filter
- ✓ Bolt-in style
- ✓ High Shock & Vibration
- ✓ CDR and JAN Reliability levels available

Voltage & Capacitance



Insertion Loss



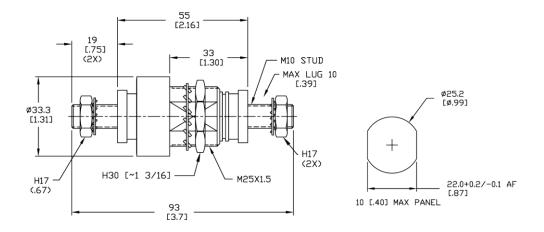




Specifications (Units to MIL-C-49467, MIL-C-55681, MIL-C-123 or customer SCD available in E-Series)

Parameter	Value	Description / Specification / Method
Current	400 Amperes	50, 55, 140, 175, 250, & 400 Amps available
Insertion Loss	See Performance Curve on page 1	Per Capacitor Value
RF Current	15A _{rms}	
Insulation Resistance	100Ω F (100 M Ω Maximum) at 25 °C	MIL-STD-202 Method 302
Dielectric Withstand Voltage	250% Rated Voltage (50mA 5s)	MIL-STD-202 Method 301
Dissipation Factor	3% Maximum	MIL-STD-202 Method 306
Voltage Drop	19mV	Wire to Wire
Operating Temp	-55°C to +125°C	40A@125°C to 400A@105°C
Temperature Rise	22.4°C Typical at 400A	
Heat Rise Constant	2.36 to 4.0	C_1 in formula $\Delta T = C_1 \times W^{0.85}$
Storage Temperature	-55°C to +105°C	
Fungus	Non-Nutrient	MIL-HDBK-454A
Corrosion (metal finish)	5% NaCl / 35°C / 48 hrs	MIL-STD-202 Method 101D / Cond B
Humidity	98%RH 25°C-65°C	MIL-STD-202 Method 106E
Shock	30g – 11ms	MIL-STD-202 Method 213B / Cond A
Terminal Strength	Torque: 200 in-lbs (22Nm) Pull: 200lbs (91kg)	MIL-STD-202 Method 211A / Cond A & E
Reliability(MTBF)	500,000 hrs	MIL-HDBK-217F Cond - N2 A(IF) 70°C 50%V

Mechanical Specifications

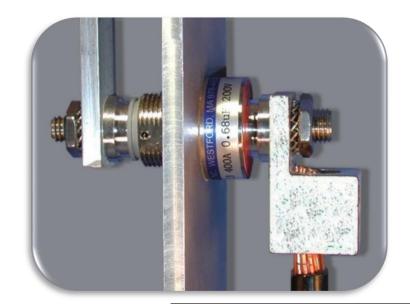


Component	Material	Finish	
Metal Parts	Copper Alloy	Nickel	
Insulator	FR4 or Nylon	-	





Mounting



INSTALLATION NOTE:

Always place current-carrying wire lug or busbar directly against the flat electrode face of the HPR400. Do not use any hardware (lockwashers, extra nuts, etc.) between the current-carrying conductor and this flat electrode face.

Installation Torque Recommendations

Electrode Lug Nut (e) Torque: 200 in-lbs (22 N·m) Mounting Panel Nut (c) Torque: 300 in-lbs (34 N·m)

Part Number

Device	Current	Capacitance	Tolerance	Voltage	Series
HPR	400	XXXX	Χ	XX	Χ

Device HPR High Current Feedthrough Filter

Current Current rating in amperes

Capacitance in picofarads, first two digits are significant, last two digits are number of zeros

e.g. $2203 = 22,000 pF / 4704 = .47 \mu F$

Tolerance Capacitor Code: Z = +80%/-20% (Standard), M = +/-20%, K = +/-10%, J = +/-5%

Voltage Rating Code: 05=50V, 10=100V, 20=200V, 50=500V, 1K=1000V, 1A=120Vac, 2A=240Vac

Series Optional series designator

Example: HPR4001004Z10 = Feedthrough Filter / 400A / 0.10uF / +80%/-20% / 100Vdc

Safety Tips

- ✓ The filter should be mounted in a grounded shielding panel
- ✓ Tighten the electrode nuts to the torque specified
- ✓ Cover exposed electrode nuts
- ✓ Observe temperature, current, & voltage limits
- ✓ Always install lug or busbar directly against center boss/flat

