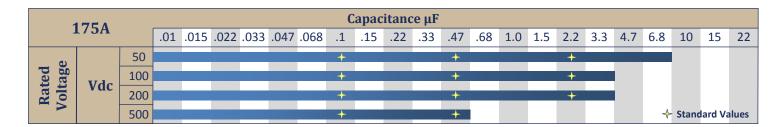


High Current DC Feedthrough Filter 175 Amp

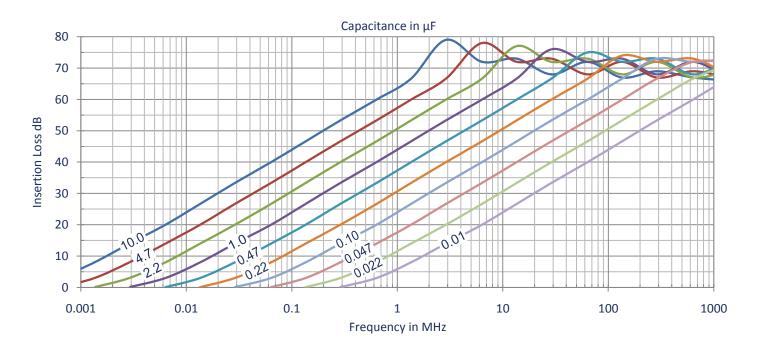


- ✓ Excellent EMI filtering
- ✓ Compact and lightweight
- ✓ "C" Type Filter
- ✓ Bolt-in style
- ✓ High Shock & Vibration
- ✓ CDR and JAN Reliability levels available

Voltage & Capacitance



Insertion Loss



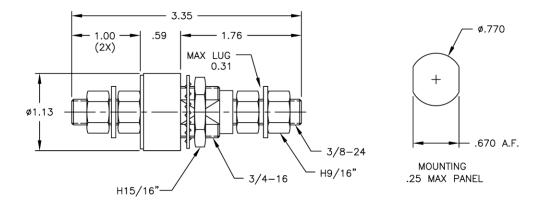




Specifications (Units to MIL-C-49467, MIL-C-55681, MIL-C-123 or customer SCD available in E-Series)

Parameter	Value	Description / Specification / Method	
Current	175 Amperes	50, 55, 140, 175, 250, & 400 Amps available	
Insertion Loss	See Performance Curve on page 1	Per Capacitor Value	
RF Current	10A _{rms}		
Insulation Resistance	100ΩF (100M 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	16mV	Wire to Wire	
Operating Temp	-55°C to +125°C	17A@125°C to 175A@90°C	
Temperature Rise	19.1°C Typical at 175A		
Heat Rise Constant	4.4 to 8.0	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: 120 in-lbs (13 N·m) Pull: 100lbs (45.5kg)	MIL-STD-202 Method 211A / Cond A & E	
Reliability(MTBF)	500,000 hrs	MIL-HDBK-217F Cond - N2 A(IF) 70°C 50%V	

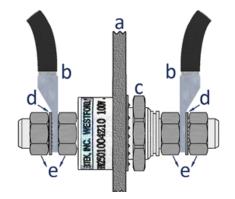
Mechanical Specifications



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



Mounting



- a. Mounting Panel
- b. Lug / Wire
- c. Mounting Nut
- d. Lock Washer
- e. Electrode Lug Nut

Installation Torque Recommendations

NOTE: Electrode Nuts (e) must be tightened using the Two-Wrench Method...Place an open end wrench on the electrode nut closest to the mounting panel (a) and a calibrated torque wrench on the outer electrode nut on the same side...Tighten nuts against one another.

The "two wrench method" will prevent any torque from developing between the electrode and the HPR body.

Electrode Lug Nut (e) Torque: 120 in-lbs (13 N·m) Mounting Panel Nut (c)Torque: 200 in-lbs (22 N·m)

Part Number

Device	Current	Capacitance	Tolerance	Voltage	Series
HPR	175	XXXX	Χ	XX	X

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%

Voltage Rating Code: 05=50V, 10=100V, 20=200V, 50=500V

Series Optional series designator

Example: HPR1751004Z10 = Feedthrough Filter / 175A / 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 with the two wrench method
- ✓ Cover exposed electrode nuts
- ✓ Observe temperature, current, & voltage limits

