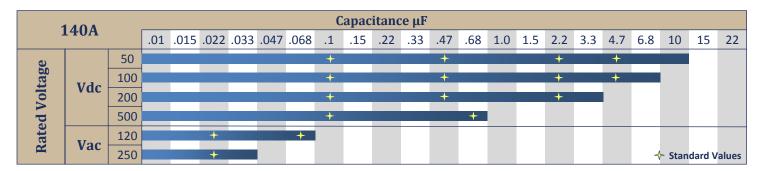


High Current DC Feedthrough Filter 140Amp

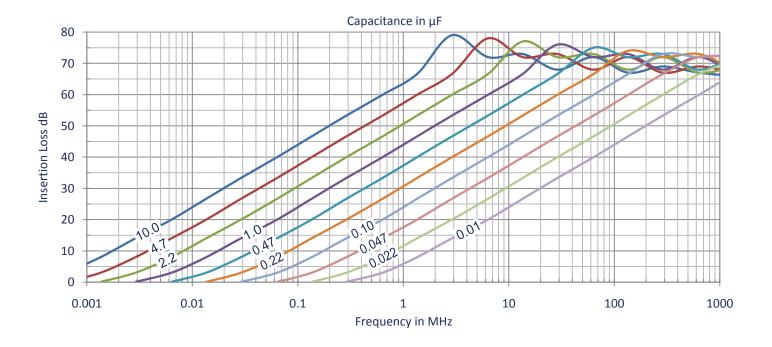


- ✓ Excellent EMI filtering
- ✓ Compact and lightweight
- √ "C" Type Filter
- ✓ Bolt-in style
- ✓ High Shock & Vibration
- ✓ CDR and JAN Reliability levels available

Voltage & Capacitance



Insertion Loss



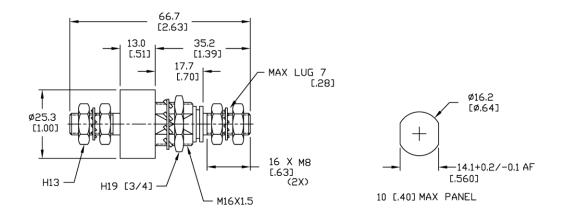




Specifications(Units to MIL-C-49467, MIL-C-55681, MIL-C-123 or customer SCD available in E-Series)

Parameter	Value	Description / Specification/ Method		
Current	140 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	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	18mV	Wire to Wire		
Operating Temp	-55°C to +125°C	14A@125°C to 140A@105°C		
Temperature Rise	22.4°C Typical at 140A			
Heat Rise Constant	5.4 to 10.2	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: 70 in-lbs (8 N·m) Pull: 75lbs (34kg)	MIL-STD-202 Method 211A / Cond A & E		
Reliability(MTBF)	500,000 hrs	MIL-HDBK-217F Cond - N2 A(IF) 70°C 50%V		

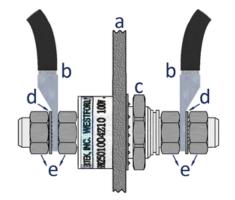
Mechanical Specifications



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: 70 in-lbs (8 N·m) Mounting Panel Nut (c)Torque: 100 in-lbs (11 N·m)

Part Number

Device	Current	Capacitance	Tolerance	Voltage	Series
HPR	140	XXXX	Х	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: HPR1401004Z10 = Feedthrough Filter / 140A / 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 nut
- ✓ Observe temperature, current, & voltage limits

