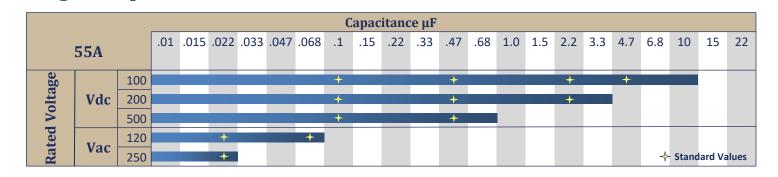


Voltage & Capacitance

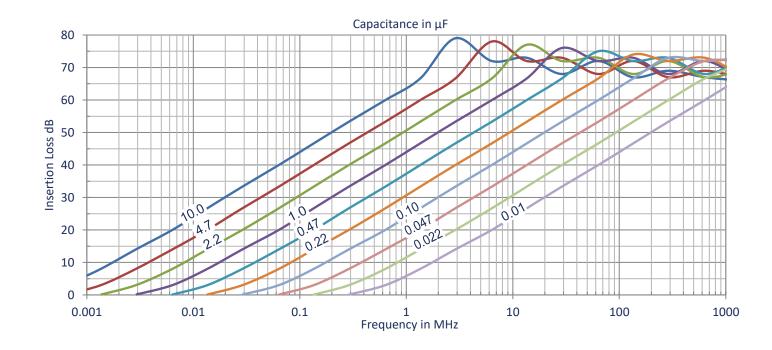
High Current DC/AC Feedthrough Filter 55Amp



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



Insertion Loss



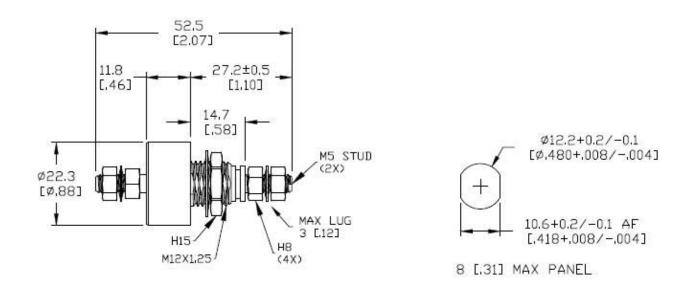


NexTek

Specifications

Parameter	Value	Description / Specification/ Method	
Current	55 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	100 Ω F (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	18mV	Wire to Wire	
Operating Temp	-55°C to +125°C	5A@125°C to 55A@90°C	
Temperature Rise	19.9°C Typical at 55A		
Heat Rise Constant	9.8 to 20	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: 14 in-lbs (5.6N·m) Pull: 50lbs (23kg)	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

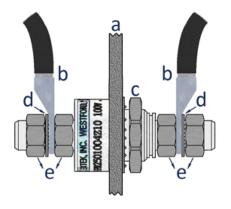


Component	Material	Finish
Metal Parts	Copper Alloy	Nickel
Insulator	FR4 or Nylon	-



NexTek Mounting

Product Specification HPR055



- 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 <u>on the same side</u>...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: 14 in-lbs (1.6 N·m) Mounting Panel Nut (c)Torque: 60 in-lbs (6.7 N·m)

Part Number

Device	Current	Capacitance	Tolerance	Voltage	Series	
HPR	055	XXXX	Х	XX	Х	
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 = 22,000pF / 4704 = .47μF					
Tolerance	Capacitor Code:Z= +80%/-20% (Standard), M= +/-20%, K= +/-10%, J=+/-5%					
Voltage	Rating Code: 10=100Vdc, 20=200Vdc, 50=500Vdc, 1K=1000Vdc, 1A=125Vac, 2A=250V					
Example: HPR	0551004Z10 = Fee	dthrough Filter /	′ 55A / 0.10uF / ·	+80%/-20% / 100)Vdc	

Safety Tips

- ✓ The filter should be mounted in a grounded shielding panel
- \checkmark Tighten the electrode nuts to the torque specified with the two-wrench method
- ✓ Cover exposed electrode nuts
- ✓ Observe temperature, current, & voltage limits

