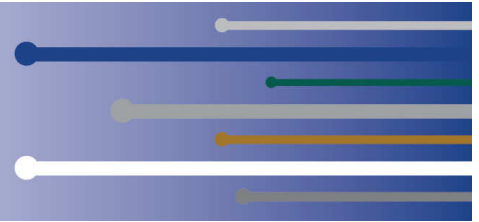




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Facility Power Line Filters

**GF78200 High Performance Series Capacitive Input
100 dB from 14 kHz ~ 18 GHz**



Product Summary

EMI/RFI Facility Power Line Filters are used to block unwanted signals and remove interference from entering or exiting through the power lines. Our High-Performance Filters provide 100 dB of attenuation from 14 kHz ~ 18GHz.

The GF78200 Facility Power Line Filter is a single line phase filter insert used in our GFP78201 and GFP88201 High Attenuation series filter panels.



See model list on page 4 for ETL listed filters.



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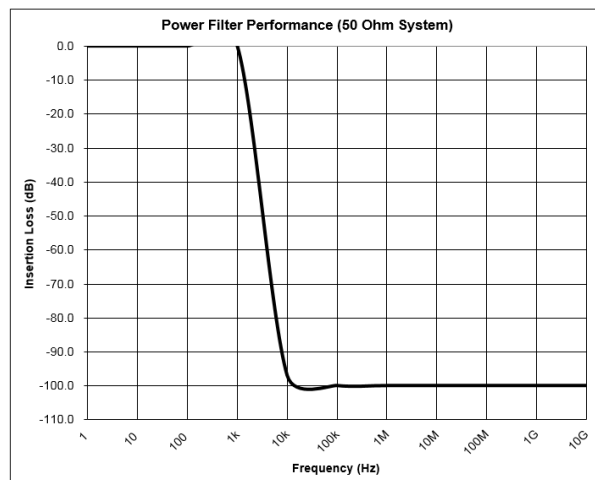




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FUNCTIONAL CHARACTERISTICS

- Voltage Ratings:
 - o 24-1,000 VDC
 - o 120/208 VAC (50/60 Hz)
 - o 277/480 VAC (50/60 Hz)
- Voltage Drop:
 - o 2% maximum at full rated unity power factor load.
- Harmonic Distortion:
 - o 2% maximum at full rated unity power factor load
- Temperature Rating:
 - o MIL-PRF-15733
- Current Overload:
 - o 140% maximum current rating
- RF Radiation:
 - o Greater than 100 dB isolation
- Dielectric With-Standing Voltage:
 - o 2,200 VDC (prior to installation of discharge resistors)
- Insulation Resistance:
 - o MIL-PRF-15733 (prior to installation of discharge resistors)
- Insertion loss:
 - o 100 dB 14 KHz to 18 GHz
 - o 50/50 Ohm System



*Representation of Insertion Loss Specifications



SPECIAL FEATURES

- Low Pass filter circuits ~ passive components which include inductors, capacitors, resistors and optional transient suppression devices.
- Manufactured and tested per applicable portions of MIL-PRF-15733
- Filter cases 16 gage, CRS, plated or painted finish.
- Sealed with welded and soldered seams for shielding effectiveness.
- Discharge resistors incorporated to eliminate potential shock hazard.

Applicable Specifications

- Military Specifications
 - MIL-PRF-15733 General
- Military Test Methods
 - MIL-STD-202 Component Parts
 - MIL-STD-220 Insertion Loss
 - MIL-STD-285 Shielding Effectiveness
- NFPA 70/2011 National Electrical Code Standards
- Manufactured to UL 1283 standards.
- ETL Intertek certified.
 - Conforms to UL 1293 standard.
 - Certified to CSA STD C22.2#8
 - See product list for ETL certified models

GFC Powerline Filter SCCRs

Maximum Short-Circuit Currents for GFC (Per ICEA 75°C Insulation Damage)

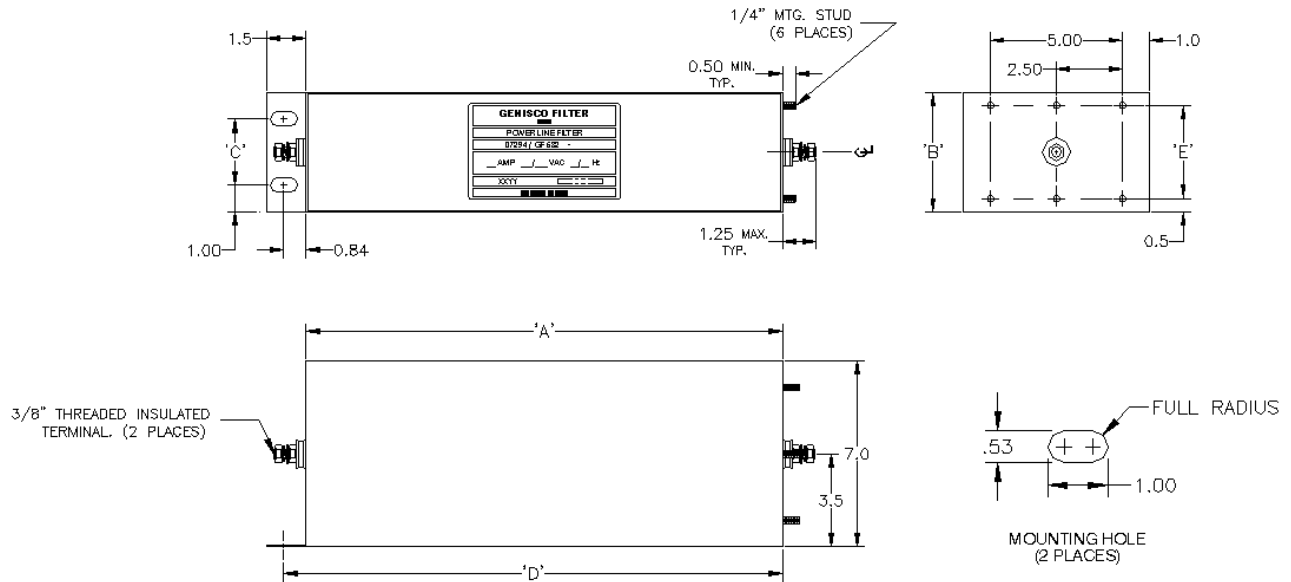
Maximum Short-Circuit Current Rating In RMS Amperes	
Filter by Amperage rating	*3 CYCLES 0.05sec
400	54.2kA
300	54.2kA
250	43kA
200	33.8kA
150	26.2kA
100	16.9kA
60	10.8kA
30	4.6kA
15	3.2kA

- Standard SCCRs consider 0.05s as the period for over current device withstanding. This period is variable upon circuit protection needs to be taken into account with filter selection.
- When comparing these values for 1/2 cycle with the available RMS symmetrical fault current, multiply the available RMS symmetrical by 1.3 to account for asymmetry during the first half cycle



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Mechanical Dimensions



ETL LISTED GF78200 PHASE FILTERS		Current Rating*	A	B	C	D	E	F Mounting studs	Approx Weight (lbs)
	YES	15 Amp Max	16.0	4.5	2.5	16.84	7	6	22
	YES	30 Amp Max	20.0	4.5	2.5	20.84	7	6	30
	YES	60 Amp Max	26.0	5.0	3.0	26.84	7	6	45
	YES	100 Amp Max	26.0	5.0	3.0	26.84	7	6	50
	YES	150 Amp Max	33.0	6.0	4.0	33.84	8	8	65
	YES	200 Amp Max	33.0	6.0	4.0	33.84	8	8	75
		250 Amp Max	33.0	6.0	4.0	33.84	8	8	75
		300 Amp Max	40.0	8.0	6.0	40.84	10	10	145
		400 Amp Max	40.0	8.0	6.0	40.84	10	10	145