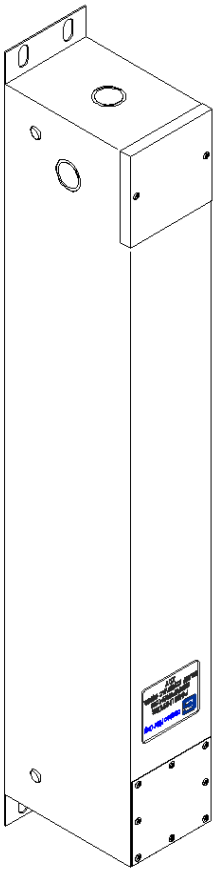
Power Line Filters

GF67920 High Attenuation Series Standalone Filter
100 dB from 14 kHz ~ 18 GHz



Product Summary

EMI/RFI Power Line Filters are used to block unwanted signals and remove interference from entering or exiting through power lines for shielded rooms, SCIFS, screen rooms and many other forms of Faraday cages. It provides 100 dB protection against EMI interference from 14 kHz ~ 18 GHz.

See model list on page 3 & 4 for UL listed filters

3408 Coutry Club Rd. Chickasha, Oklahoma 73018 Call: 855-GENISCO (855-436-4726) Email-info@genisco.com Web-www.genisco.com

FUNCTIONAL CHARACTERISTICS

- Voltage Ratings:
  - o 0-1,000 VDC
  - o 120/208 VAC (50/60 Hz)
  - o 277/480 VAC (50/60 Hz)
- Voltage Drop: 2% maximum at full rated unity power factor load.
- Harmonic Distortion: <4% maximum at full rated unity power factor load
- Temperature Rating: MIL-PRF-15733
- Current Overload: 140% maximum current rating
- RF Radiation: Greater than 100 dB isolation
- Dielectric With-Standing Voltage: 2,200 VDC (prior to installation of discharge resistors)
- Insulation Resistance: MIL-PRF-15733 (prior to installation of discharge resistors)
- Insertion loss:
  - o 100 dB 14 kHz to 18 GHz
  - o 50/50 Ohm System

Note: Filters are not designed or intended for short circuit, and are not provided with integral overcurrent protection, or any overcurrent protection. Intended to be installed with suitably rated overcurrent protection upstream to prevent all short-circuit scenarios from occurring. When a filter is installed downstream of an approved overcurrent protection device (such as a circuit breaker) there is no need for the filter to have an SCCR rating itself, since the upstream protection device will provide protection to the filter.

SPECIAL FEATURES

Filter(s)

- Low Pass filter circuits ~ passive components which includes inductors, capacitors, resistors, and optional transient suppression devices
- Manufactured and tested per applicable portions of MIL-PRF-15733
- All circuits provided in single enclosure
- Discharge resistors incorporated to eliminate potential shock hazard

Enclosure

- Fabricated case of not less than 18 gauge cold rolled steel electro plated or painted Gray (Std. Paint Color)
- Sealed with welded and soldered seams for minimum shielding effectiveness 100 dB, 14 kHz to 18 GHz
- Double knock outs provided on filter case input
- Dual cover access to shielded and unshielded terminals
- Mounting tab provided for easy wall mounting.
- Conduit knockouts provided at unshielded side of filter.
- To maintain shielding effectiveness, no knockouts can be provided at the shielded side of filter. Installer makes the penetration.

Applicable Specifications

- Military Specifications:MIL-PRF-15733 General
- Military Test Methods
  - o MIL-STD-202 Component Parts
  - o MIL-STD-220 Insertion Loss
  - o MIL-STD-285 Shielding Effectiveness
- NFPA 70/2011 National Electrical Code
- **UL listed models**. Certified to UL 1283 standards (See page 3&4)

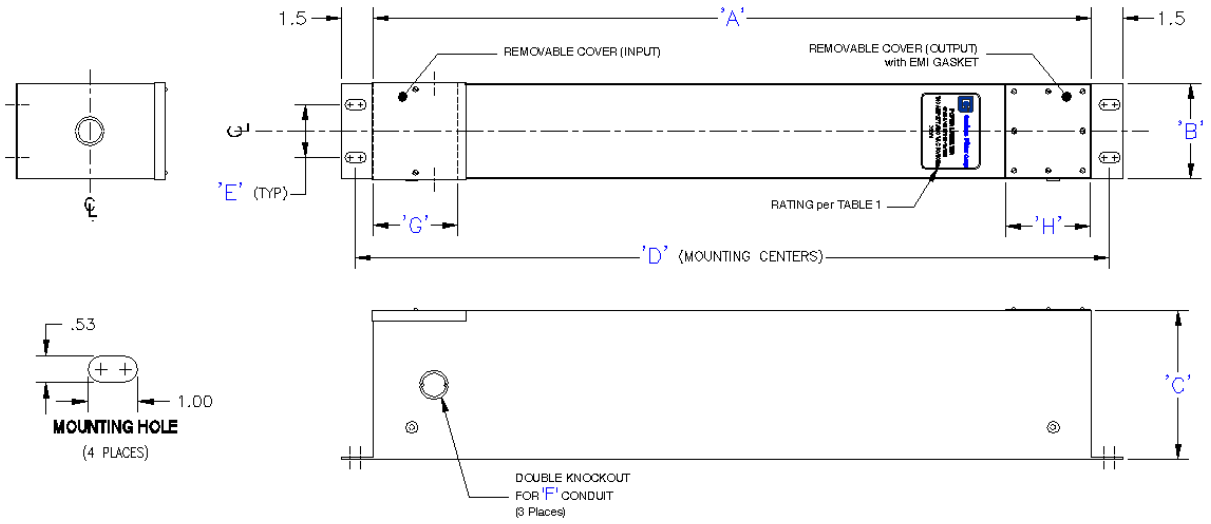
Available Options

- Surge Suppressors
- EMI Ring Gaskets

3408 Coutry Club Rd. Chickasha, Oklahoma 73018 Call: 855-GENISCO (855-436-4726) Email-info@genisco.com Web-www.genisco.com

Mechanical Dimensions

Table 1 Mechanical Dimensions



UL LISTED FACILITY FILTER 86LS	# of Filters & Max Current Rating	A	B	C	D	E	F	G	H	Approx Weight (lbs)
YES	1x015	24	4.5	6	25.6	2	1 – 1¼	4	5	30
YES	1x030	28	4.5	6	29.6	2	1 – 1¼	4	5	35
YES	1x060	34	5	6	35.6	2	1 – 1¼	4	5	50
YES	1x100	34	5	6	35.6	2	1 – 1¼	4	5	50
YES	1x150	45	6.5	8	46.6	2	1 – 1¼	6	7	85
YES	1x200	45	6.5	8	46.6	2	1 – 1¼	6	7	85
	1x250	45	6.5	8	46.6	2	1 – 1¼	6	7	100
	1x300	51	8	10	52.6	2	1¼ - 1½	6	7	150
	1x400	51	8	10	52.6	2	1¼ - 1½	6	7	150

3408 Coutry Club Rd. Chickasha, Oklahoma 73018 Call: 855-GENISCO (855-436-4726) Email-info@genisco.com Web-www.genisco.com

UL LISTED FACILITY FILTER 86LS	# of Filters & Max Current Rating	A	B	C	D	E	F	G	H	Approx. Weight (lbs.)
	2x015	24	8	6	28.6	2	1 – 1¼	4	5	40
YES	2x030	28	8	6	35.6	2	1 – 1¼	4	5	45
YES	2x060	34	10	6	35.6	3	1 – 1¼	4	5	100
YES	2x100	34	10	6	35.6	3	1 – 1¼	4	5	100
YES	2x150/200	45	11	8	46.6	3	1¼ - 1½	6	7	125
	3x015	24	11	6	24.6	3	1 – 1¼	4	5	55
YES	3x030	28	11	6	28.6	3	1 – 1¼	4	5	55
YES	3x060	34	15	6	35.6	3	1 – 1¼	4	5	75
YES	3x100	34	15	6	35.6	3	1 – 1¼	4	5	80
	4x015	24	14	6	24.6	3	1 – 1¼	4	5	70
YES	4x030	28	14	6	28.6	3	1 – 1¼	4	5	75

***Other Circuit Configurations and Current Ratings Available Upon Request • Dimensions are in Inches**

PART NUMBER BREAKDOWN, USING A **GF67920-2X30-00** AS THE EXAMPLE:

- GF67920 = BASIC FILTER SERIES
- -2x30 = Number of filter circuits within the filter housing. This is followed by the amperage rating. In this example there are two wire terminations each rated for 30 amps. A line and neutral, two lines, or positive and negative.
- -00. The last one or two characters denote options or special manufacturing notes.

Information is general and subject to change without notice. Please contact us for help with your project.

3408 Coutry Club Rd. Chickasha, Oklahoma 73018 Call: 855-GENISCO (855-436-4726) Email-info@genisco.com Web-www.genisco.com