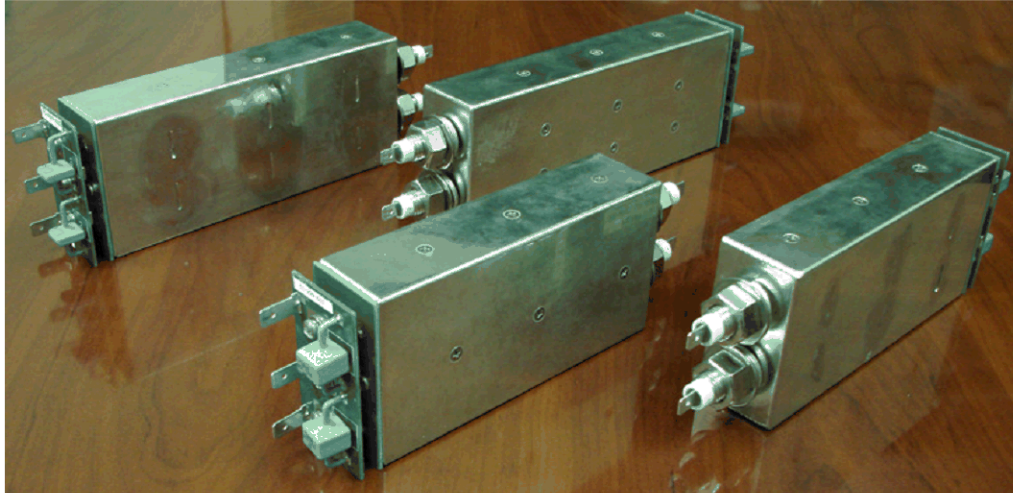


## HEMP/EMP Filters

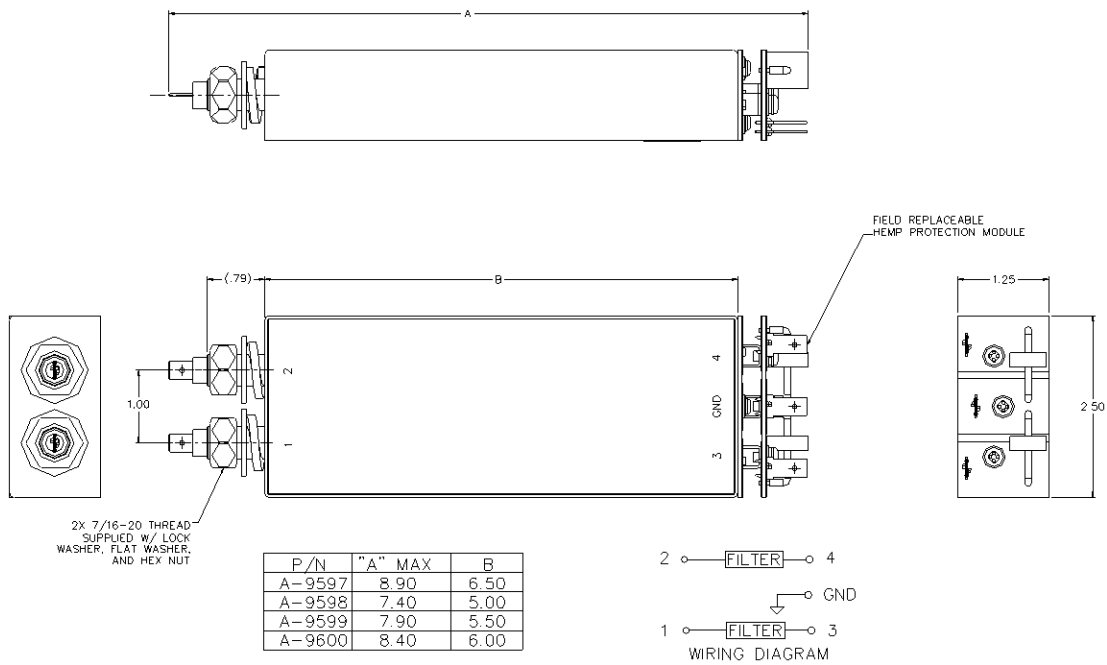


### Specifications

◆ Voltage	0 to 480 Volts
◆ Current	0 to 100 Amps
◆ Frequency	DC to 400 Hz
◆ Insertion Loss	100 dB minimum from 14 kHz to 10 GHz
◆ Operating Temperature	-40° C to +71° C
◆ Storage Temperature	-55° C to +105° C
◆ Altitude	Maximum of 15,000 feet above sea level
◆ Humidity	10 to 90 Percent
◆ Fungus	Non-nutritive materials are used
◆ Corrosion	Hermetically sealed steel or aluminum enclosures with tin-lead plating

### Attributes/Options

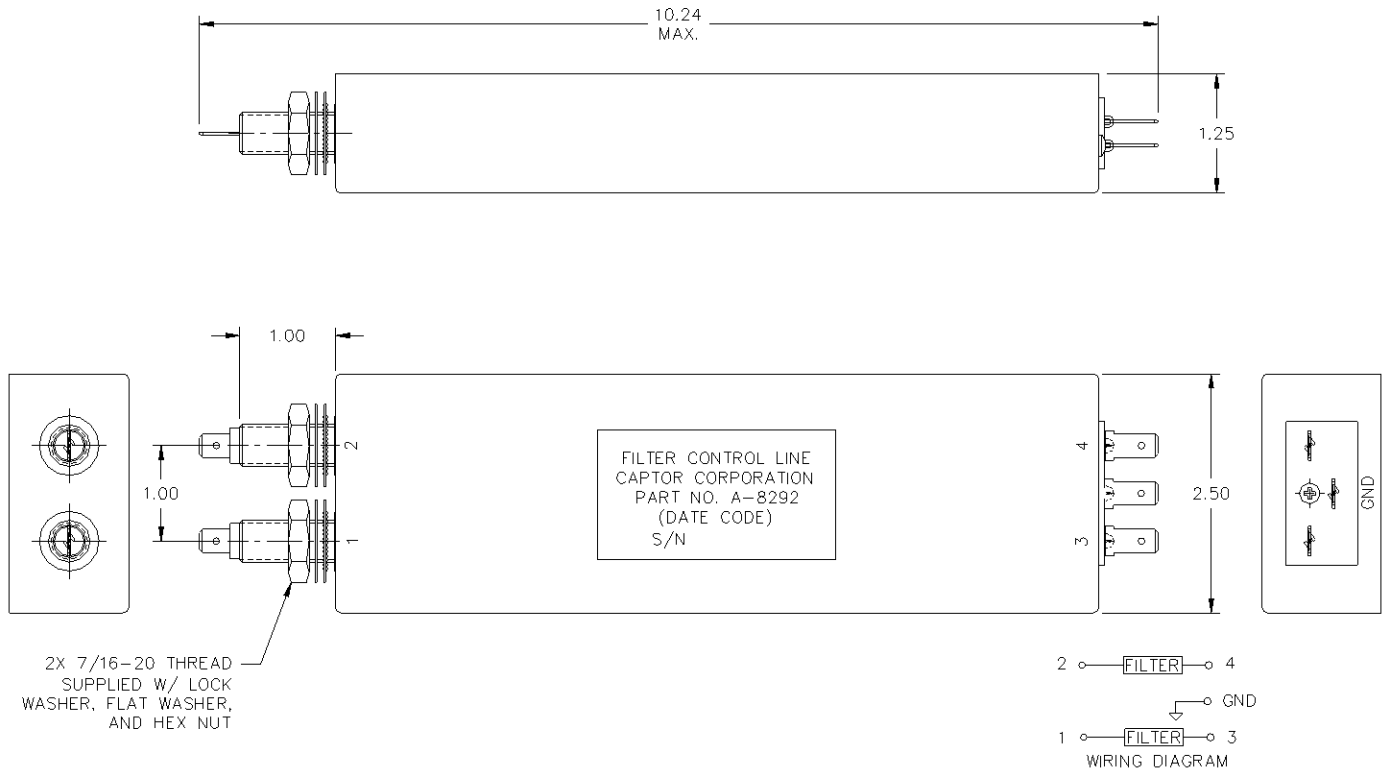
- ◆ Meet or exceed the **MIL-STD-188-125-1** requirements
- ◆ Inductive Input
- ◆ Choice of Termination Configurations
  - ◆ Quick Disconnect Terminal Tabs
  - ◆ Threaded Studs
  - ◆ Connectors
- ◆ Can be supplied with HEMP Protection Modules
- ◆ Supplied with Certified PCI data upon request
- ◆ Existing Designs for:
  - ◆ Other Power Lines (Intrasite)
  - ◆ Audio/Data Lines (Intersite)
  - ◆ Control/Signal Lines (Intersite)
- ◆ Existing Applications include:
  - ◆ AC/DC power
  - ◆ Telephone Lines
  - ◆ Analog Fire Alarms
  - ◆ Servo Motors
  - ◆ Synchro Transmitter
- ◆ Custom tailoring for your unique application



ELECTRICAL RATINGS							
Part Number	Voltage	Current	Frequency	DCR	DWV <sup>1/</sup>	Passband Response	MIL-STD-220 Insertion Loss <sup>4/</sup>
						Limit	Limit
A-9597	35 Vrms 50 Peak	2 Amps	DC-60 Hertz	$\leq 0.3 \Omega$	200 VDC	N/A	100 dB Minimum from 14 kHz through 10 GHz
A-9598	132 Vrms 187 Peak	2 Amps	DC-60 Hertz	$\leq 1.0 \Omega$	600 VDC	N/A	
A-9599	132 Vrms 187 Peak	0.5 Amps	DC-60 Hertz	$\leq 6.1 \Omega$	600 VDC	0 to 3000 Hertz, 1 dB <sup>2/</sup> 0 to 3500 Hertz, 3 dB <sup>2/</sup>	
A-9600	35 Vrms 50 Peak	0.5 Amps	DC-60 Hertz	$\leq 1.5 \Omega$	200 VDC	0 to 3000 Hertz, 1 dB <sup>3/</sup> 0 to 3500 Hertz, 3 dB <sup>3/</sup>	

- Notes:
- <sup>1/</sup> With HEMP protection devices removed.
  - <sup>2/</sup> 600  $\Omega$  line to line and 300  $\Omega$  line to ground
  - <sup>3/</sup> 100  $\Omega$  line to line and 50  $\Omega$  line to ground
  - <sup>4/</sup> Full Load from 100 KHz to 20 MHz.

PCI - HEMP Parameters						
Part Number		Type of Injection	Peak Short-Circuit Current (A)	Source Impedance	Load Impedance	Residual Peak Current (A)
A-9597	Short Pulse	Common Mode	5,000	$\geq 60 \Omega$	N/A	$\leq 0.1$
		Wire-to-ground	2,500	$\geq 60 \Omega$	2 $\Omega$	$\leq 0.1$
A-9598	Short Pulse	Common Mode	5,000	$\geq 60 \Omega$	N/A	$\leq 1.0$
		Wire-to-ground	3,536	$\geq 60 \Omega$	2 $\Omega$	$\leq 1.0$
A-9599	Short Pulse	Common Mode	5,000	$\geq 60 \Omega$	N/A	$\leq 1.0$
		Wire-to-ground	3,536	$\geq 60 \Omega$	50 $\Omega$	$\leq 1.0$
A-9600	Short Pulse	Common Mode	5,000	$\geq 60 \Omega$	N/A	$\leq 0.1$
		Wire-to-ground	2,500	$\geq 60 \Omega$	50 $\Omega$	$\leq 0.1$

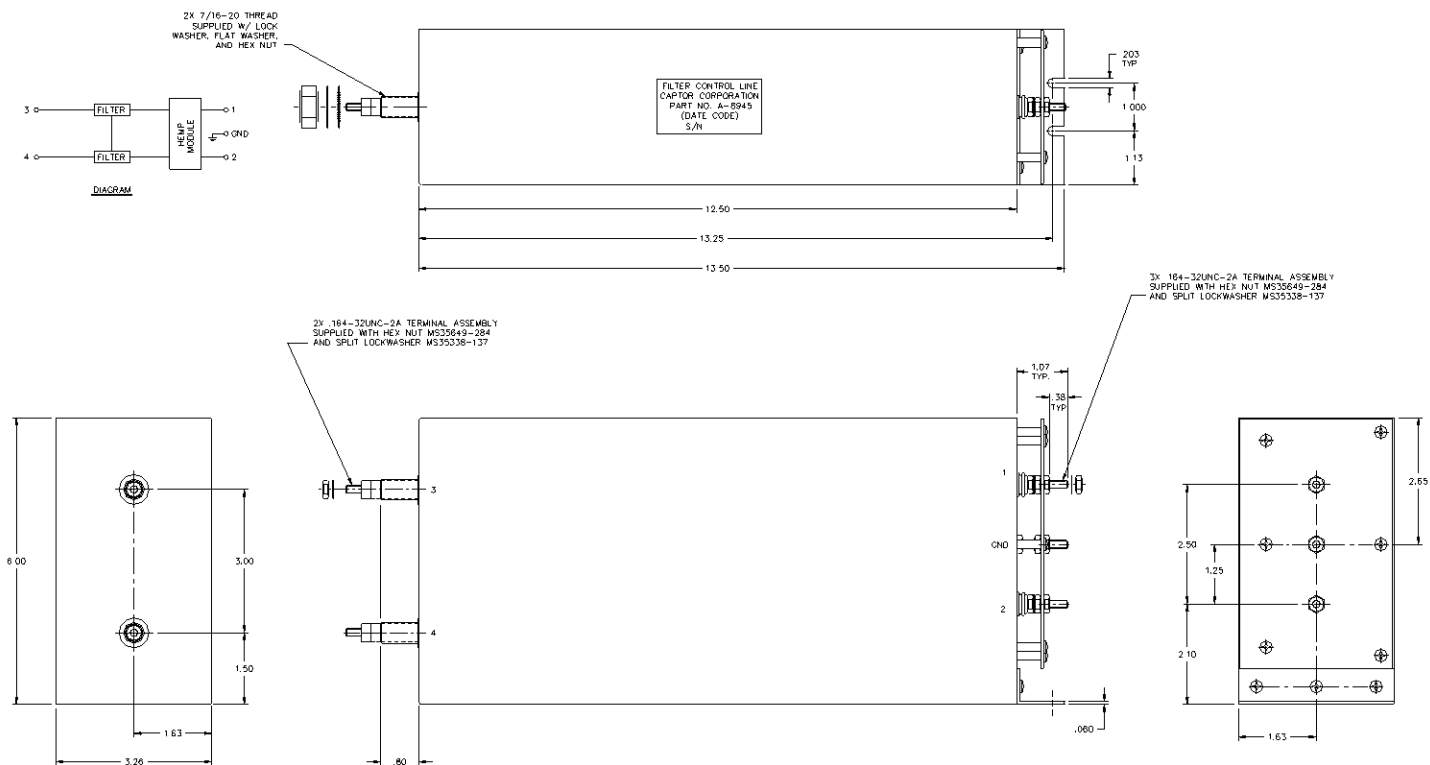


ELECTRICAL RATINGS						
Part Number	Voltage	Current	Frequency	DCR	DWV	MIL-STD-220 Insertion Loss <sup>1/</sup>
A-8292	125 Vrms 177 Peak	5 Amperes	DC to 60 Hertz	≤ 0.5 Ω	600 VDC	100 dB Minimum from 14 kHz through 10 GHz

Notes: <sup>1/</sup> Full Load from 100 kHz to 20 MHz

PCI - HEMP Parameters						
Part Number		Type of Injection	Peak Short-Circuit Current (A)	Source Impedance	Load Impedance	Residual Peak Current (A)
A-9597	Short Pulse	Common Mode	2,500	≥ 60 Ω	N/A	≤ 1.0
		Wire-to-ground	2,500	≥ 60 Ω	2 Ω	≤ 1.0

Notes: <sup>1/</sup> When tested with external V130LA20B MOV connected from each line to ground



### ELECTRICAL RATINGS

Part Number	Voltage	Current	Frequency	DCR	DWV <u>1/</u>	MIL-STD-220
						Insertion Loss <u>2/</u>
						Limit
A-8945	120 Vrms	20 Amperes	60 Hertz	$\leq 0.10 \Omega$	800 VDC	100 dB Minimum from 14 kHz through 10 GHz

- Notes: 1/ Tested by manufacturer prior to installation of voltage suppressors.  
2/ Full Load from 100 KHz to 20 MHz.

### PCI - HEMP Parameters

Part Number	Type of Injection	Peak Short-Circuit Current (A)	Source Impedance	Load Impedance	Residual Peak Current (A)
A-8945	Common Mode	2,500	$\geq 60 \Omega$	N/A	$\leq 10$
	Wire-to-ground	2,500	$\geq 60 \Omega$	2 $\Omega$	$\leq 10$