

EMP/HEMP Filter

Meeting Mil-STD-188-125, E1 and E2 Pulse Test Requirements

Features

- Insulation Resistance, DWV tested prior to discharge resistor and MOV installation
- Temperature Rise, less than 25° C
- Filters rated for 16A and 30A additionally meet modified E3 Pulse test
- Custom designs available, contact factory

Applications

- Commercial and industrial infrastructure
- Ground based applications
- Radars
- Airborne communication systems
- Federal power grids



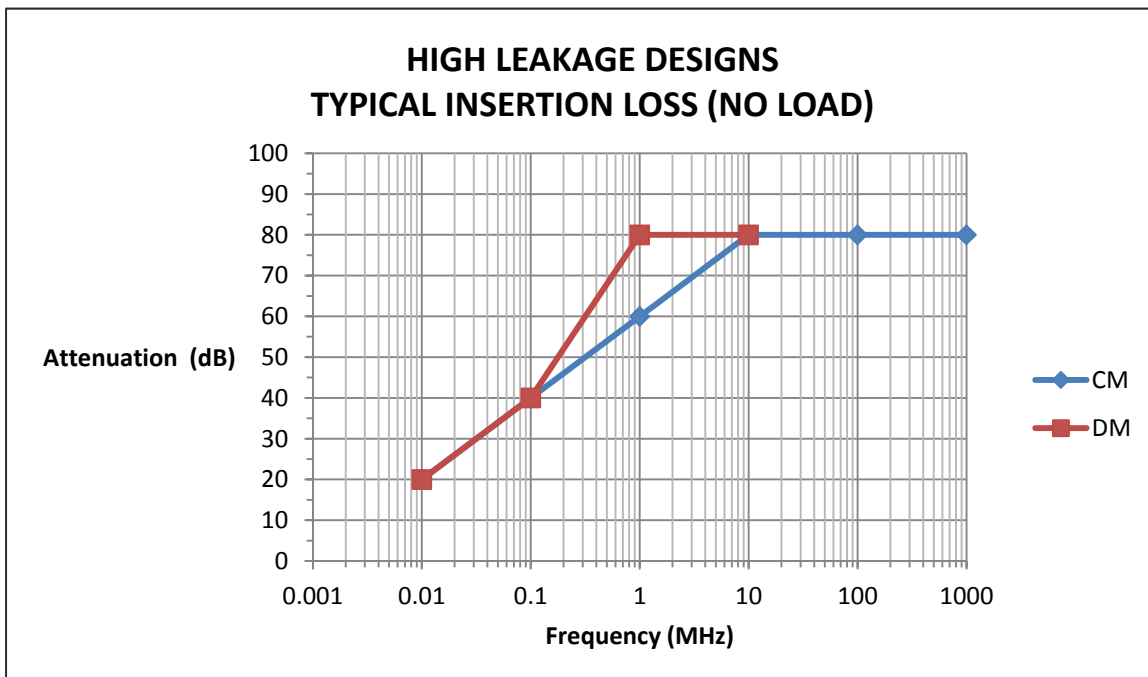
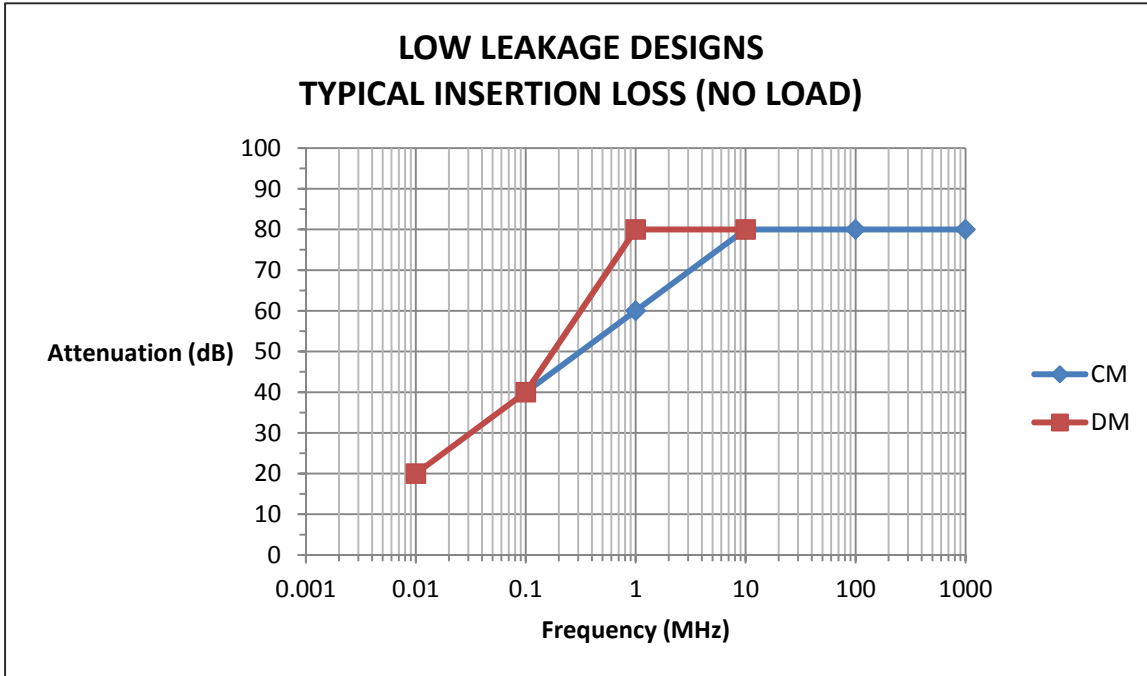
API Technologies’ model 52-1700-XXX High-altitude Electromagnetic Pulse (HEMP) Filters are designed to protect sensitive electronics equipment during hazardous transient conditions.

They are employed to absorb a potentially destructive overshoot voltage. Under normal operating conditions, the suppressor circuit exhibits high off state impedance that appears transparent to the circuits they protect. If a voltage exceeding the switching voltage is applied to the circuit, the suppressor circuit switches to very low impedance effectively shorting out the high voltage. The suppressor circuit will remain in the low impedance state until the current flowing through the suppressor is either interrupted or drops to a safe level. Once this occurs, the suppressor resets and returns to a high off-state impedance. These High Voltage HEMP Filters will also help meet the requirements of MIL-STD-188-125.

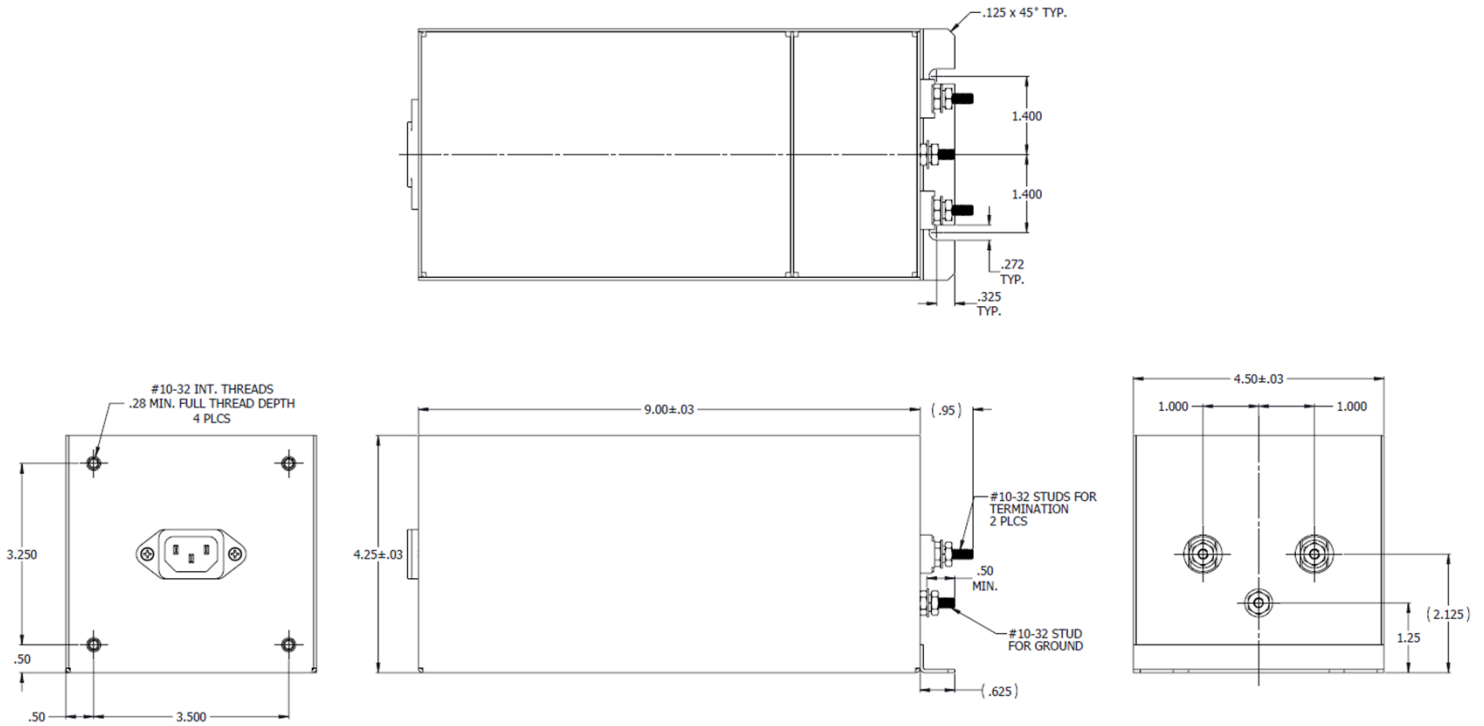
Dimensions in Inches

Current (A)	Length	Width	Height	Input	Output
6	9	4.5	4.25	IEC 320-C14	10-32
16	9	4.5	4.25	IEC C20	10-32
30	9	4.5	4.25	NEMA L6-30P	10-32

Insertion Loss



***Outline Drawing**



Part Number:	Voltage (AC, 50/60 Hz)	Current (A)	Leak (ma)	IR	DWV (VDC)	VD	Operating Temp	Storage Temp	Pass thru (A)
52-1700-101	24 VDC	6	0	1 G	2250	< 1%	-40 / + 65C	-55 / +105C	<2A
52-1700-102	24 VDC	16	0	1 G	2250	< 1%	-40 / + 65C	-55 / +105C	<2A
52-1700-103	24 VDC	30	0	1 G	2250	< 1%	-40 / + 65C	-55 / +105C	<2A
52-1700-201	48 VDC	6	0	1 G	2250	< 1%	-40 / + 65C	-55 / +105C	<5A
52-1700-202	48 VDC	16	0	1 G	2250	< 1%	-40 / + 65C	-55 / +105C	<5A
52-1700-203	48 VDC	30	0	1 G	2250	< 1%	-40 / + 65C	-55 / +105C	<5A
*52-1700-301	72 VDC	6	0	1 G	2250	< 1%	-40 / + 65C	-55 / +105C	<5A
52-1700-302	72 VDC	16	0	1 G	2250	< 1%	-40 / + 65C	-55 / +105C	<5A
52-1700-303	72 VDC	30	0	1 G	2250	< 1%	-40 / + 65C	-55 / +105C	<5A
52-1700-401	125 VAC	6	15	1 G	2250	< 1%	-40 / + 65C	-55 / +105C	<2A
52-1700-402	125 VAC	6	150	1 G	2250	< 1%	-40 / + 65C	-55 / +105C	<2A
52-1700-403	125 VAC	16	15	1 G	2250	< 1%	-40 / + 65C	-55 / +105C	<5A
52-1700-404	125 VAC	16	150	1 G	2250	< 1%	-40 / + 65C	-55 / +105C	<5A
52-1700-405	125 VAC	30	15	1 G	2250	< 1%	-40 / + 65C	-55 / +105C	<5A
52-1700-406	125 VAC	30	150	1 G	2250	< 1%	-40 / + 65C	-55 / +105C	<5A
52-1700-501	250 VAC	6	35	1 G	2250	< 1%	-40 / + 65C	-55 / +105C	<2A
52-1700-502	250 VAC	6	350	1 G	2250	< 1%	-40 / + 65C	-55 / +105C	<2A
52-1700-503	250 VAC	16	35	1 G	2250	< 1%	-40 / + 65C	-55 / +105C	<5A
52-1700-504	250 VAC	16	350	1 G	2250	< 1%	-40 / + 65C	-55 / +105C	<5A
52-1700-505	250 VAC	30	35	1 G	2250	< 1%	-40 / + 65C	-55 / +105C	<5A
52-1700-506	250 VAC	30	350	1 G	2250	< 1%	-40 / + 65C	-55 / +105C	<5A