



PrimePowerSolutions

HEMP Filters for Power / Signal Line

HEMP filters protect the country's core facilities from strong nuclear and electromagnetic attacks.



Head Office

3960 West Point Loma Blvd, Ste. H San Diego, CA 92110

John Park Director / Technical Support Dept.

Office : +1.858.282.0901 (Ext.701) / Mobile : +1.858.322.3932 / shock419@primepowersolutions.com

01

HEMP Filters for Power Line



● Features

These filters are designed for HEMP Protection of power lines.

These are suitable for voltage up to 380Vac and high current power line application.

● General Specification

Insertion loss : 30dB min at 10kHz,
100dB min from 150kHz to 18GHz

DC withstanding voltage : 2250Vdc

MIL STD 188-125-1(Short pulse) : 6A(MAX) at 2500A

Operating/Storage temperature : -40 °C to +85 °C

● Electric Specifications and Dimensions

Part No.	Rated Current [A]	Rated Voltage [Vac]	No. of Lines	Dimensions[inch/mm]			Max Weight [lb/kg]
				A	B	C	
937-E10100	10	250	2	23.62/600	7.87/200	5.51/140	35.27/16
937-E10200	30	250	2	23.62/600	7.87/200	5.51/140	37.47/17
937-E10300	50	250	2	24.80/630	9.84/250	5.90/150	46.29/21
937-E10400	100	250	2	27.16/690	11.02/280	6.29/160	74.95/34
937-E10500	200	250	2	30.70/780	13.77/350	6.69/170	103.61/47
937-E11200	30	380	4	24.40/620	12.83/326	6.29/160	66.13/30
937-E11300	50	380	4	27.77/680	13.38/340	6.29/160	77.16/35
937-E11400	100	380	4	29.52/750	15.74/400	6.69/160	114.64/52
937-E11500	200	380	4	34.25/870	20.47/520	7.08/180	187.39/85
937-E11600	300	380	4	30.31/770	25.59/650	9.05/230	222.66/101
937-E11700	400	380	4	47.24/1200	31.49/800	10.62/270	352.73/160
937-E111250	1200	380	4	78.74/2000	47.24/1200	19.68/500	2425.08/1100

* The size of the filter may vary depending on the situation

02

HEMP Filters

High Performance for Power Line



● Features

These high performance power line filters have been designed to meet high insertion loss requirement of 100dB from 14kHz to 18GHz. These filters are designed for HEMP protection of power lines. These are suitable for voltage up to 380Vac and high current power line application.

● General Specification

Insertion loss : 100dB min from 14kHz to 18GHz
 DC withstanding voltage : 2250Vdc
 MIL STD 188-125-1(Short pulse) : 6A(MAX) at 2500A
 Operating/Storage temperature : -40 °C to +85 °C

● Electric Specifications and Dimensions

Part No.	Rated Current [A]	Rated Voltage [Vac]	No. of Lines	Dimensions[inch/mm]			Max Weight [lb/kg]
				A	B	C	
HEMP-10-201-01-02	10	250	2	26.37/670	11.02/280	5.9/150	48.5/22
HEMP-10-203-01-02	30	250	2	26.37/670	11.02/280	5.9/150	55.11/25
HEMP-10-205-01-02	50	250	2	27.55/700	12.2/310	5.9/150	61.72/28
HEMP-10-208-01-02	100	250	2	32.67/830	13.77/350	6.69/170	97/44
HEMP-10-210-01-02	200	250	2	41.33/1050	17.32/440	6.69/170	154.32/70
HEMP-20-203-03-02	30	380	4	29.13/740	16.92/430	6.69/170	88.18/40
HEMP-20-205-03-02	50	380	4	30.31/770	18.11/460	6.69/170	110.23/50
HEMP-20-208-03-02	100	380	4	35.43/900	19.68/500	7.08/180	176.36/80
HEMP-20-210-03-02	200	380	4	40.94/1040	13.77/350	7.48/190	220.46/100
HEMP-20-211-03-02	300	380	4	47.24/1200	28.34/720	9.05/230	286.6/130
HEMP-20-212-03-02	400	380	4	59.05/1500	35.43/900	11.02/280	418.87/190
HEMP-20-1250-03-02	1200	380	4	78.74/2000	39.37/1000	11.81/300	881.84/400

* The size of the filter may vary depending on the situation

03

HEMP Filters for Signal Line



● Features

These filters are designed for HEMP Protection of signal lines. These are suitable for voltage up to 100Vac and high current signal line application.

● General Specification

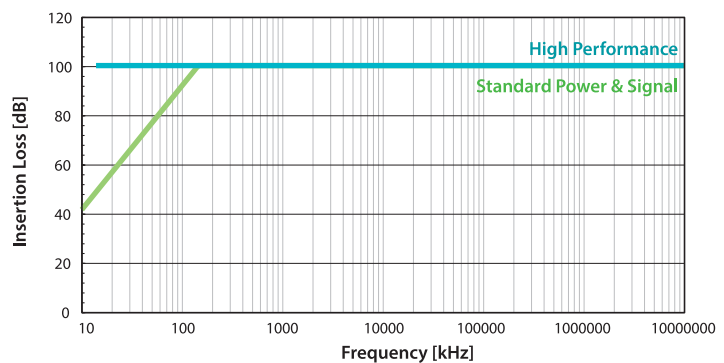
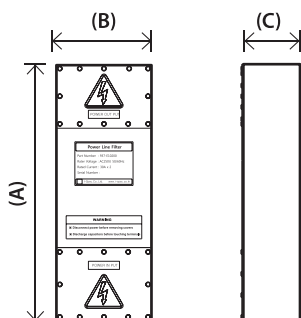
Insertion loss : 35dB min at 10kHz,
100dB min from 150kHz to 18GHz
DC withstanding voltage : 2250Vdc
MIL STD 188-125-1 (Short pulse) : 6A (MAX) at 2500A
Operating/Storage temperature : -40 °C to +85 °C

● Electric Specifications and Dimensions

Part No.	Rated Current [A]	Rated Voltage [Vac]	No. of ines	Dimensions[inch/mm]			Max Weight [lb/kg]
				A	B	C	
HEMP-60-200-04	1	100	2	13.97/355	3.18/81	2.36/60	6.61/3
HEMP-60-200-05	1	100	4	13.97/355	5.03/128	2.36/60	7.71/3.5
HEMP-60-200-06	1	100	8	14.96/380	8.66/220	2.36/60	12.12/55
HEMP-60-200-16	1	100	16	15.35/390	8.66/220	4.33/110	17.63/8
HEMP-60-200-2-04	5	90	2	15.74/400	3.93/100	3.14/80	9.7/4.4

* The size of the filter can change depending on the situation

● Dimensions



> 04

EMI Filters for Power Line



● Features

These filters are designed for HEMP Protection of signal lines.

These are suitable for voltage up to 380Vac and high current signal line application.

● General Specification

Insertion loss : 60dB min at 14kHz,
100dB min from 150kHz to 18GHz

DC withstanding voltage : 2250Vdc

DC Resistance : Max. 2mΩ ~8mΩ

Operating/Storage temperature : -40°C to +85°C

● Electric Specifications and Dimensions

Part No.	Rated Current [A]	Rated Voltage [Vac]	Max. Dc REs. [mΩ]	No. of Lines	Dimensions[inch/mm]			Max Weight [lb/kg]
					A	B	C	
FCF-10-0010A-X2	10	250	8	2	23.62/600	8.66/220	5.9/150	37.47/17
FCF-10-0030A-X2	30	250	6	2	23.62/600	8.66/220	5.9/150	39.68/18
FCF-10-0050A-X2	50	250	4	2	24.8/630	9.84/250	6.29/160	44.09/20
FCF-10-0100A-X2	100	250	3	2	30.31/770	12.2/310	6.69/170	72.75/33
FCF-10-0200A-X2	200	250	3	2	34.25/870	13.77/350	7.48/190	99.2/45
FCF-20-0030A-X4	30	380	6	4	23.62/600	12.83/326	6.69/180	59.52/27
FCF-20-0050A-X4	50	380	4	4	24.8/630	13.38/340	6.69/180	68.34/31
FCF-20-0100A-X4	100	380	3	4	30.31/770	15.74/400	6.69/180	105.82/48
FCF-20-0200A-X4	200	380	3	4	34.25/870	19.68/500	7.87/200	171.96/78
FCF-20-0300A-X4	300	380	2	4	35.43/900	25.59/650	9.05/230	220.46/100

* The size of the filter may vary depending on the situation

> 05

EMI Filters High Performance for Power Line



● Features

These high performance power line filters have been designed to meet high insertion loss requirement of 100dB from 14kHz to 10GHz. These filters are designed for EMC protection of power lines. These are suitable for voltage up to 380Vac and high current power line application.

● General Specification

Insertion loss : 100dB min from 14kHz to 18GHz
 DC withstanding voltage : 2250Vdc
 DC Resistance : Max. 2mΩ ~8mΩ
 Operating/Storage temperature : -40°C to +85°C

● Electric Specifications and Dimensions

Part No.	Rated Current [A]	Rated Voltage [Vac]	Max. Dc REs. [mΩ]	No. of Lines	Dimensions[inch/mm]			Max Weight [lb/kg]
					A	B	C	
FCF-10-0010A-X2-02	10	250	8	2	31.1/790	8.66/220	5.9/150	52.91/24
FCF-10-0030A-X2-02	30	250	6	2	31.1/790	8.66/220	5.9/150	52.91/24
FCF-10-0050A-X2-02	50	250	4	2	37/940	10.62/270	6.29/160	66.13/30
FCF-10-0100A-X2-02	100	250	3	2	39.76/1010	11.81/300	6.69/180	110.23/50
FCF-10-0200A-X2-02	200	250	2	2	47.63/1210	14.96/380	7.87/200	154.32/70
FCF-20-0030A-X4-02	30	380	6	4	31.49/800	11.81/300	6.69/180	99.2/45
FCF-20-0050A-X4-02	50	380	4	4	37.79/960	13.38/340	6.69/180	114.61/52
FCF-20-0100A-X4-02	100	380	3	4	40.55/1030	15.74/400	7.87/200	165.34/75
FCF-20-0200A-X4-02	200	380	2	4	48.42/1230	19.68/500	8.66/220	286.6/130
FCF-20-0300A-X4-02	300	380	2	4	55.11/1400	24.4/620	9.84/250	396.83/180

* The size of the filter may vary depending on the situation