

# Plug-In High Pass Filter

## PHP-250+

50Ω 225 to 1200 MHz

### Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W max.

Permanent damage may occur if any of these limits are exceeded.

### Pin Connections

INPUT	1
OUTPUT	8
GROUND	2,3,4,5,6,7
CASE GROUND	2,3,4,5,6,7

### Features

- rugged shielded case, hermetically sealed
- other standard and custom PHP models available with wide selection of fco

### Applications

- lab use
- transmitters/receivers
- military/hi-rel application



Generic photo used for illustration purposes only

CASE STYLE: A01

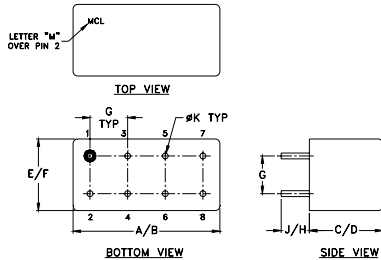
**+RoHS Compliant**

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

### High Pass Filter Electrical Specifications

STOPBAND (MHz)		fco (MHz) Nom.	PASSBAND (MHz)	VSWR (:1)	
(loss > 40 dB)	(loss > 20 dB)	(loss 3 dB)	(loss < 1 dB)	Stopband Typ.	Passband Typ.
DC-100	100-150	205	225-1200	17	1.3

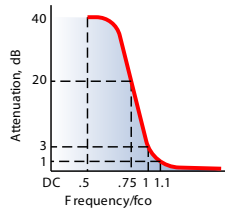
### Outline Drawing



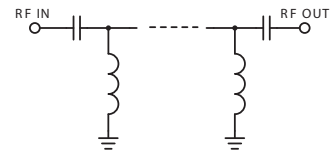
### Outline Dimensions (inch/mm)

A	B	C	D	E	F
.770	.800	.385	.400	.370	.400
19.56	20.32	9.78	10.16	9.40	10.16
G	H	J	K	wt	
.200	.20	.14	.031	grams	
5.08	5.08	3.56	0.79	5.2	

### typical frequency response

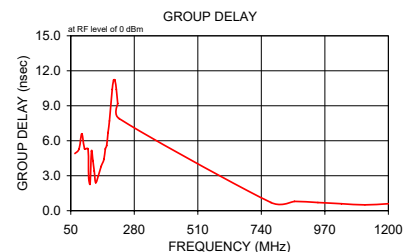
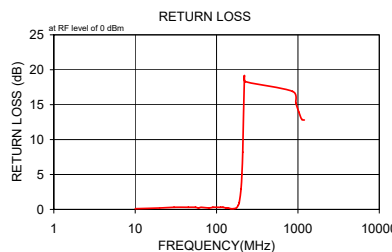
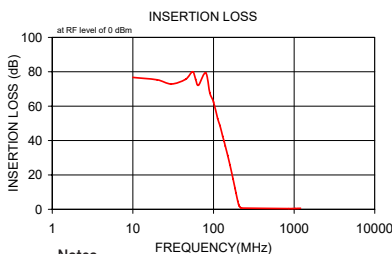


### electrical schematic



### Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$	$\sigma$			
10.0	76.72	4.7	0.1	65.0	4.87
20.0	75.31	6.1	0.2	80.0	5.31
30.0	72.93	2.4	0.3	90.0	6.58
45.0	75.64	7.5	0.3	100.0	5.25
55.0	80.00	7.3	0.3	112.5	5.32
60.0	75.56	5.5	0.2	115.0	2.79
65.0	72.15	5.4	0.3	120.0	2.30
80.0	79.38	6.5	0.2	125.0	5.09
90.0	67.76	2.6	0.3	130.0	4.28
100.0	62.37	1.3	0.3	135.0	3.36
112.5	52.78	0.8	0.3	140.0	2.45
120.0	48.75	1.0	0.3	150.0	2.97
130.0	42.50	1.0	0.2	160.0	3.83
135.0	39.68	0.9	0.2	170.0	4.42
140.0	36.80	0.9	0.2	175.0	5.34
150.0	31.25	0.8	0.1	180.0	5.61
160.0	25.78	0.9	0.1	185.0	6.71
175.0	17.58	0.8	0.2	190.0	7.72
185.0	12.12	0.7	0.6	200.0	10.39
190.0	9.45	0.6	1.0	205.0	11.22
200.0	4.68	0.4	2.9	210.0	11.21
205.0	2.91	0.2	5.0	215.0	10.43
210.0	1.73	0.2	8.2	220.0	9.18
220.0	0.78	0.1	19.1	225.0	7.95
225.0	0.69	0.1	18.3	775.0	0.73
860.0	0.38	0.1	16.9	860.0	0.76
945.0	0.43	0.1	15.2	945.0	0.68
1030.0	0.48	0.1	13.9	1030.0	0.63
1115.0	0.52	0.1	12.9	1115.0	0.51
1200.0	0.56	0.1	12.8	1200.0	0.64



#### Notes

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