

# Plug-In High Pass Filter

## PHP-175+

50Ω 160 to 800 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

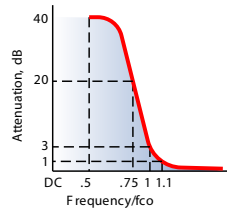
**+RoHS Compliant**

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

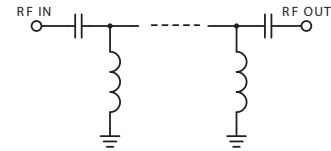
### High Pass Filter Electrical Specifications

STOPBAND (MHz)	fco (MHz) Nom.	PASSBAND (MHz)	VSWR (:1)
(loss > 40 dB)	(loss > 20 dB)	(loss < 3 dB)	Stopband Typ. Passband Typ.
DC-70	70-105	140	17 1.5

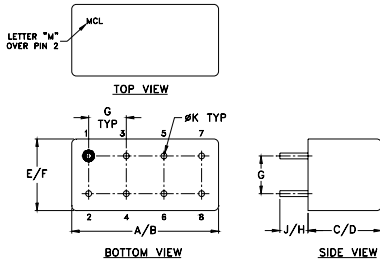
#### typical frequency response



#### electrical schematic



### Outline Drawing

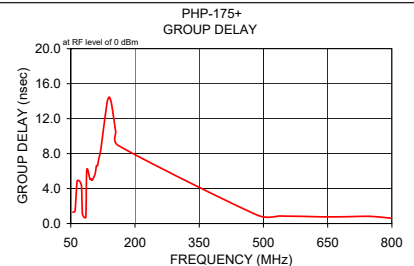
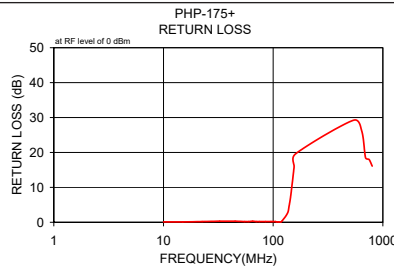
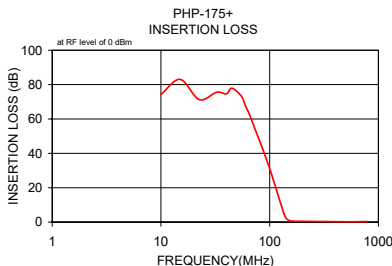


### Outline Dimensions (inch/mm)

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 Performance Data

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$	$\sigma$			
10.00	74.24	5.1	0.1	55.00	1.30
15.00	83.02	3.4	0.1	60.00	1.43
22.50	71.28	2.9	0.2	65.00	4.88
32.50	75.54	2.9	0.3	70.00	4.88
40.00	74.66	2.9	0.3	75.00	4.29
45.00	77.91	4.5	0.3	77.50	1.02
55.00	73.19	4.3	0.2	85.00	0.72
60.00	67.53	1.4	0.2	87.50	6.14
65.00	62.87	1.7	0.3	95.00	5.06
70.00	57.55	1.1	0.2	97.50	5.12
75.00	52.51	0.4	0.2	100.00	4.95
85.00	43.70	0.3	0.2	105.00	5.42
95.00	35.16	0.3	0.2	107.50	5.81
97.50	33.16	0.4	0.2	110.00	6.62
100.00	31.08	0.4	0.2	112.50	6.63
105.00	27.09	0.4	0.2	115.00	7.30
107.50	25.06	0.4	0.1	117.50	7.83
112.50	21.11	0.4	0.1	120.00	8.44
117.50	17.21	0.3	0.1	135.00	13.89
120.00	15.29	0.3	0.3	140.00	14.48
135.00	5.06	0.1	2.6	145.00	13.77
140.00	2.90	0.1	4.8	155.00	10.48
145.00	1.60	0.1	7.9	160.00	8.96
155.00	0.67	0.1	15.8	485.00	0.98
160.00	0.54	0.1	19.6	537.50	0.86
537.50	0.18	0.1	29.2	590.00	0.82
642.50	0.21	0.1	26.1	642.50	0.77
695.00	0.26	0.1	18.5	695.00	0.78
747.50	0.27	0.1	18.0	747.50	0.82
800.00	0.31	0.1	16.1	800.00	0.60



### Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
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