

# Plug-In High Pass Filter

50Ω 600 to 1600 MHz

## Maximum Ratings

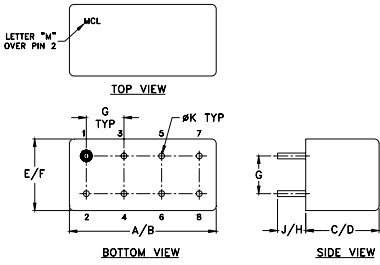
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W max.

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

## 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	

## 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

# PHP-600+ PHP-600



Generic photo used for illustration purposes only

CASE STYLE: A01

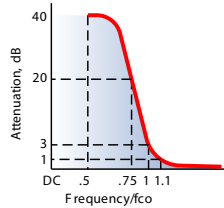
**+RoHS Compliant**

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

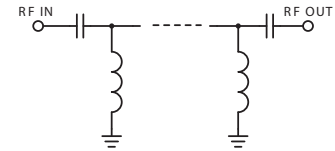
## High Pass Filter Electrical Specifications

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-325	325-420	560	600-1600	17	1.5

## typical frequency response

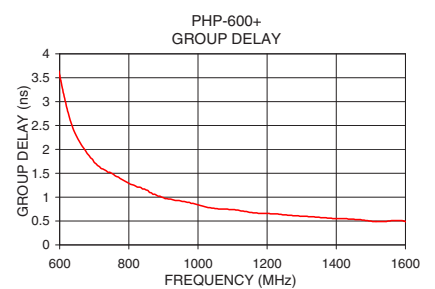
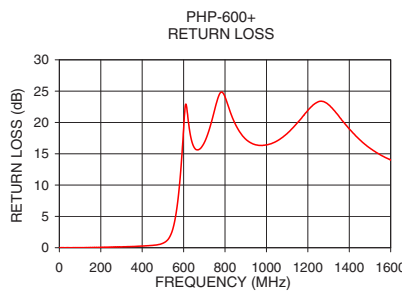


## electrical schematic



## Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$	$\sigma$			
1.00	101.25	6.07	0.01	600.00	3.42
50.00	91.37	5.83	0.00	625.00	2.65
100.00	89.81	3.74	0.01	650.00	2.20
250.00	66.76	1.19	0.09	700.00	1.71
325.00	47.71	0.69	0.16	750.00	1.48
420.00	28.37	0.63	0.30	800.00	1.28
490.00	14.86	0.68	0.59	850.00	1.14
530.00	7.18	0.63	1.56	900.00	0.98
560.00	2.70	0.38	4.75	950.00	0.91
575.00	1.42	0.21	8.30	1000.00	0.83
600.00	0.58	0.04	18.98	1100.00	0.74
800.00	0.32	0.01	24.09	1200.00	0.66
1000.00	0.39	0.02	16.42	1300.00	0.60
1200.00	0.31	0.01	21.92	1350.00	0.58
1300.00	0.29	0.01	22.83	1400.00	0.55
1400.00	0.32	0.02	18.97	1450.00	0.54
1500.00	0.41	0.02	15.89	1500.00	0.49
1600.00	0.43	0.02	14.02	1600.00	0.49



## 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.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at [www.minicircuits.com/MCLStore/terms.jsp](http://www.minicircuits.com/MCLStore/terms.jsp)

