

# Plug-In High Pass Filter

## PHP-800+ PHP-800

50Ω 780 to 2000 MHz

### Maximum Ratings

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

### Pin Connections

INPUT	1
OUTPUT	8
GROUND	2,3,4,5,6,7
CASE GROUND	2,3,4,5,6,7
DEMO BOARD	TB-305

### Features

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

### Applications

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



CASE STYLE: A01  
PRICE: \$17.20 ea. QTY: (1-9)

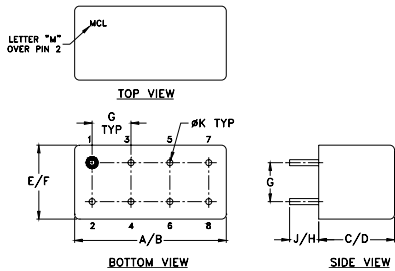
**+ RoHS compliant in accordance with EU Directive (2002/95/EC)**

*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-445	445-570	710	780-2000	17	2.1

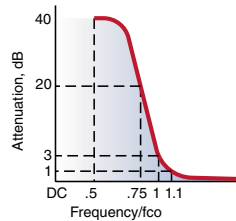
### Outline Drawing



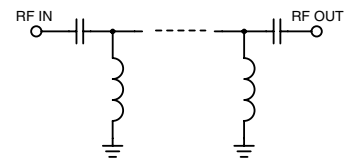
### Outline Dimensions (inch/mm)

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

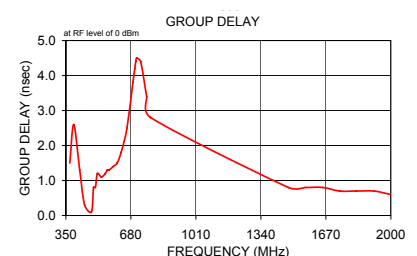
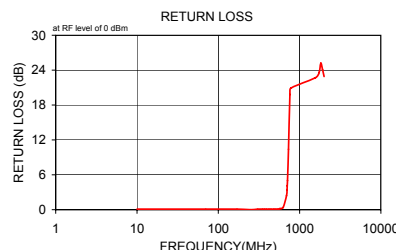


### electrical schematic



### Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$	$\sigma$			
10.00	71.01	3.2	0.1	370.00	1.49
70.00	73.97	7.6	0.1	390.00	2.63
170.00	74.31	4.7	0.1	420.00	1.26
250.00	78.24	7.6	0.0	445.00	0.34
305.00	74.58	4.6	0.1	480.00	0.09
350.00	73.24	4.5	0.1	490.00	0.81
370.00	68.47	5.1	0.1	500.00	0.83
390.00	62.18	2.2	0.1	510.00	1.20
420.00	56.95	3.2	0.1	530.00	1.11
445.00	51.70	1.7	0.1	550.00	1.23
480.00	45.25	1.4	0.1	560.00	1.33
500.00	41.85	1.2	0.1	570.00	1.28
530.00	36.39	1.1	0.1	590.00	1.41
550.00	32.85	1.0	0.1	610.00	1.49
560.00	31.02	0.9	0.1	630.00	1.83
570.00	29.24	0.9	0.2	660.00	2.47
590.00	25.55	0.8	0.2	690.00	3.78
630.00	17.93	0.7	0.4	700.00	4.22
690.00	6.18	0.7	2.4	705.00	4.43
700.00	4.49	0.6	3.4	710.00	4.50
705.00	3.77	0.6	4.1	730.00	4.40
710.00	3.11	0.5	5.0	760.00	3.36
730.00	1.38	0.3	10.4	780.00	2.84
760.00	0.65	0.1	19.8	1480.00	0.83
780.00	0.59	0.1	20.9	1565.00	0.79
1565.00	0.34	0.1	22.7	1655.00	0.77
1740.00	0.36	0.1	23.6	1740.00	0.70
1825.00	0.33	0.1	25.2	1825.00	0.70
1915.00	0.34	0.1	24.1	1915.00	0.72
2000.00	0.34	0.1	22.9	2000.00	0.64



INTERNET <http://www.minicircuits.com>

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

Distribution Centers NORTH AMERICA 800-654-7949 • 417-335-5935 • Fax 417-335-5945 • EUROPE 44-1252-832600 • Fax 44-1252-837010

Mini-Circuits ISO 9001 & ISO 14001 Certified

REV. A  
M98898  
PHP-800  
061115