

Plug-In High Pass Filter

PHP-400+

50Ω 395 to 2000 MHz

Maximum Ratings

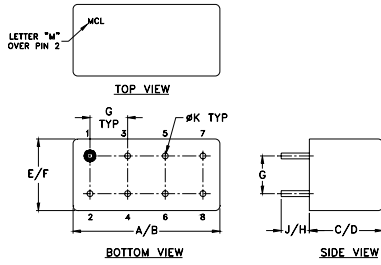
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W max.

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



Generic photo used for illustration purposes only

CASE STYLE: A01

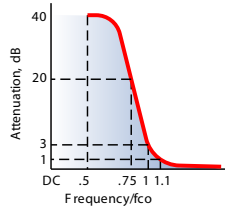
+RoHS Compliant

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

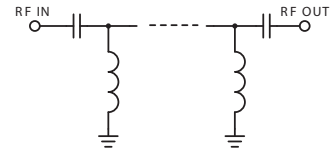
High Pass Filter Electrical Specifications

STOPBAND (MHz)	fco (MHz) Nom.	PASSBAND (MHz)	VSWR (:1)
(loss > 40 dB)	(loss > 20 dB)	(loss < 3 dB)	Stopband Typ. Passband Typ.
DC-210	210-290	370	17 1.8

typical frequency response

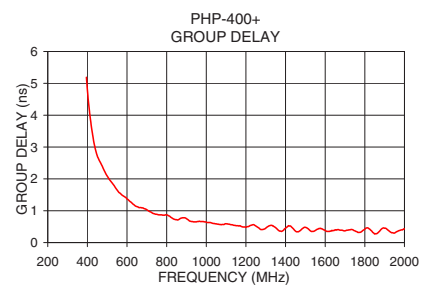
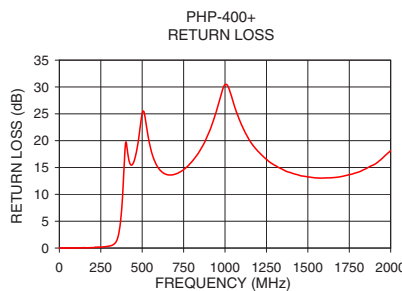
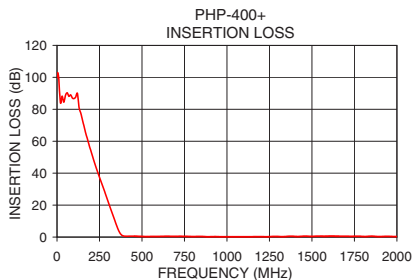


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	\bar{x}	σ			
1.00	102.95	4.51	0.00	395.00	5.19
50.00	88.72	5.16	0.00	425.00	3.44
100.00	86.70	3.32	0.01	450.00	2.72
210.00	50.22	0.43	0.10	500.00	2.09
290.00	25.51	0.38	0.31	550.00	1.65
320.00	16.35	0.43	0.54	600.00	1.37
350.00	7.49	0.45	1.69	700.00	1.03
370.00	2.60	0.30	5.14	800.00	0.87
380.00	1.29	0.16	8.92	1000.00	0.64
395.00	0.62	0.05	17.59	1100.00	0.59
425.00	0.57	0.02	15.84	1200.00	0.48
550.00	0.35	0.01	18.68	1300.00	0.45
750.00	0.42	0.01	14.59	1400.00	0.45
1000.00	0.24	0.02	30.43	1500.00	0.48
1250.00	0.29	0.02	16.53	1600.00	0.38
1500.00	0.40	0.03	13.26	1700.00	0.37
1750.00	0.45	0.03	13.67	1800.00	0.42
2000.00	0.32	0.02	18.15	2000.00	0.43



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

