Plug-In

High Pass Filter

PHP-100+

50Ω 90 to 400 MHz

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

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

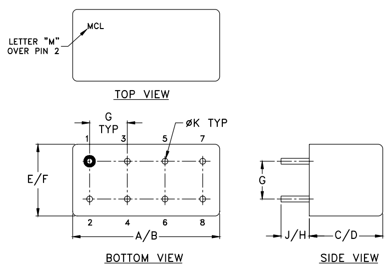
Applications

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

High Pass Filter Electrical Specifications

STOPBAND (MHz)		fco (MHz) Nom.	PASSBAND (MHz)	VSWR (:1)	
				Stopband Typ.	Passband Typ.
(loss > 40 dB)	(loss > 20 dB)	(loss 3 dB)	(loss <1 dB)		
DC-40	40-55	82	90-400	17	1.5

Outline Drawing

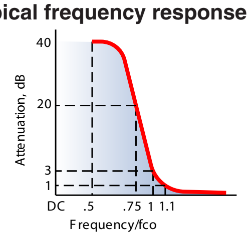


Outline Dimensions (inch / mm)

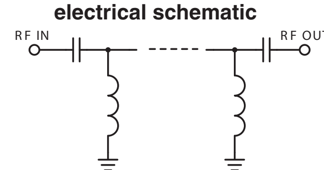
A	B	C	D	E	F
.770	.800	.385	.400	.370	.400
19.56	20.32	9.78	10.16	9.40	10.16

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

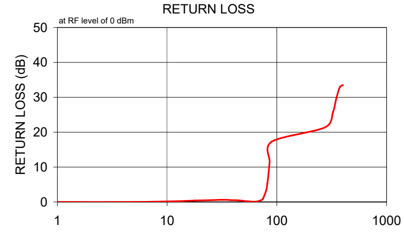


Typical Performance Data

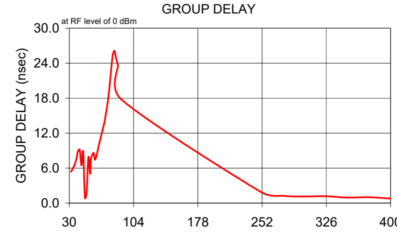
Frequency (MHz)	Insertion Loss (dB) x̄	Insertion Loss (dB) σ	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
1.00	66.80	1.3	0.0	32.00	5.38
5.00	69.56	0.5	0.0	35.00	6.18
12.00	76.93	5.0	0.2	38.00	7.45
18.00	72.01	4.0	0.4	40.00	8.91
25.00	74.64	7.6	0.5	42.00	9.15
30.00	70.54	2.0	0.6	44.00	6.49
32.00	70.63	3.7	0.6	46.00	8.82
35.00	70.04	3.6	0.6	48.00	0.92
38.00	63.40	2.1	0.5	50.00	1.83
40.00	59.85	0.7	0.5	52.00	7.91
42.00	55.56	0.6	0.5	54.00	5.06
46.00	49.83	0.5	0.4	55.00	7.57
50.00	43.77	0.6	0.3	58.00	8.59
52.00	40.75	0.6	0.2	60.00	7.49
54.00	37.94	0.5	0.2	65.00	10.52
55.00	36.57	0.6	0.2	70.00	13.56
58.00	32.40	0.6	0.1	72.00	15.21
65.00	22.98	0.7	0.1	75.00	18.22
72.00	13.63	0.6	0.5	80.00	25.45
75.00	9.75	0.5	1.0	82.00	26.11
80.00	4.23	0.1	3.4	84.00	24.72
82.00	2.74	0.1	5.3	86.00	23.58
84.00	1.74	0.1	8.0	90.00	17.77
86.00	1.16	0.1	11.5	250.50	1.92
90.00	0.72	0.1	17.3	275.50	1.26
275.50	0.23	0.1	21.4	300.00	1.14
325.00	0.21	0.1	25.8	325.00	1.18
350.00	0.21	0.1	29.9	350.00	0.95
375.00	0.21	0.1	32.9	375.00	1.01
400.00	0.21	0.1	33.5	400.00	0.78

INSERTION LOSS

RETURN LOSS



GROUP DELAY



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