

Bandpass Filter

PBP-10.7+

50Ω Elliptic Response 9.5 to 11.5 MHz

Maximum Ratings

Operating Temperature -55°C to 100°C

Storage Temperature -55°C to 100°C

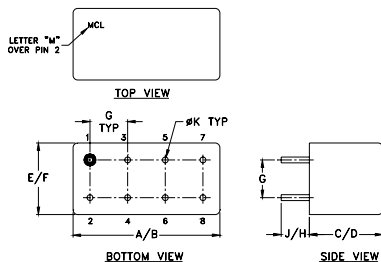
RF Power Input 0.5W max.

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

- low insertion loss, 1.5 dB max.
- good selectivity, 1.76 typ. 20 dB/3 dB BW ratio
- rugged shielded case, hermetically sealed

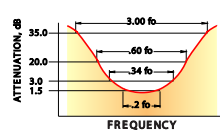
Applications

- military hi-rel systems
- high rejection applications
- image rejection
- IF signal processing

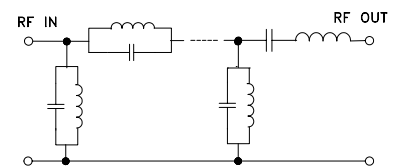
Bandpass Filter Electrical Specifications

CENTER FREQ. (MHz)	PASSBAND (MHz)	3dB BANDWIDTH (MHz)	STOPBANDS		VSWR (:1)	
	I.L. 1.5 dB Max.	Typ.	(I. loss > 20 dB) at MHz	(I. loss > 35 dB) at MHz	Passband Max.	Stopband Typ.
10.7	9.5-11.5	8.9-12.7	7.5 & 15	0.6 & 50-1000	1.7	16

typical frequency response

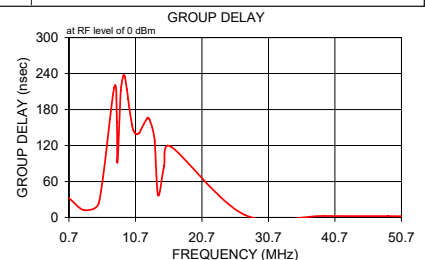
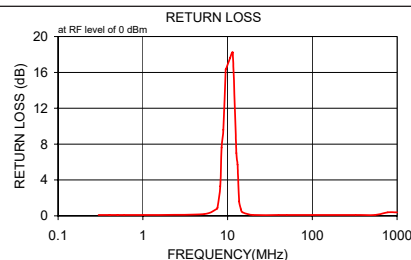
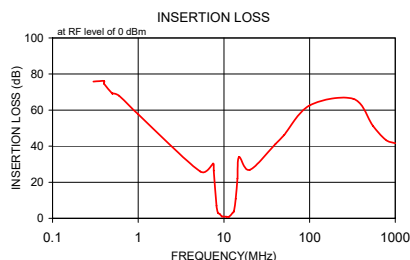


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$	σ		
0.3	75.80	2.6	0.7	32.371
0.4	76.10	4.5	3.0	12.114
0.4	74.62	4.4	5.2	24.403
0.5	69.06	2.7	7.5	215.923
0.5	69.33	1.0	7.9	159.468
0.6	67.91	1.5	8.0	91.912
1.0	57.74	0.3	8.5	212.732
5.3	25.94	0.6	8.9	237.192
7.5	30.37	2.8	9.1	235.123
7.6	26.43	4.9	9.4	213.803
8.2	7.00	1.5	9.6	197.449
8.5	3.15	0.8	9.8	180.177
8.9	2.45	0.7	9.6	153.153
9.5	0.99	0.1	16.3	145.221
9.6	0.97	0.1	16.4	140.803
10.7	0.86	0.1	17.6	138.559
11.5	0.92	0.1	18.2	141.337
12.7	3.16	0.8	7.0	145.896
13.1	3.82	1.0	5.7	165.780
13.7	10.81	2.5	1.6	163.590
14.4	22.10	4.6	0.7	145.784
15.0	33.97	4.4	0.4	127.403
20.0	26.84	0.5	0.1	36.953
40.0	41.22	0.5	0.1	85.658
50.0	46.00	0.7	0.1	118.360
100.0	62.57	1.7	0.1	4.513
325.0	66.25	3.8	0.1	2.558
550.0	51.22	1.1	0.1	2.259
775.0	43.48	1.5	0.4	2.045
1000.0	41.66	1.9	0.4	2.283



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



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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Mini-Circuits:](#)

[PBP-10.7+](#)