

Bandpass Filter

50Ω Elliptic Response 55 to 67 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

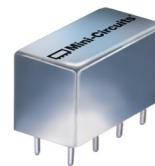
Features

- 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

PBP-60+



CASE STYLE: A01

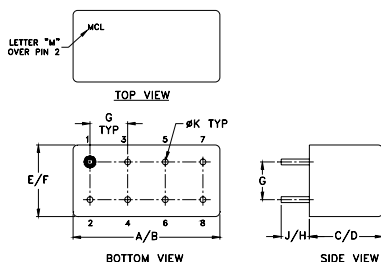
+RoHS Compliant

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

Bandpass Filter Electrical Specifications

CENTER FREQ. (MHz)	PASSBAND (MHz)	3dB BANDWIDTH (MHz)	STOPBANDS		VSWR (:1)	
			(I. loss > 20 dB) at MHz	(I. loss > 35 dB) at MHz	Passband Max.	Stopband Typ.
60	55-67	49.8-70.5	44 & 79	4.6 & 190-1000	1.7	16

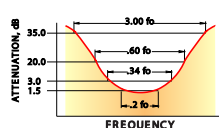
Outline Drawing



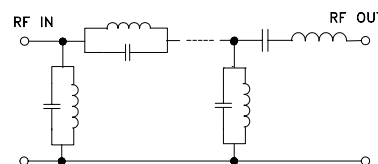
Outline Dimensions (inch/mm)

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

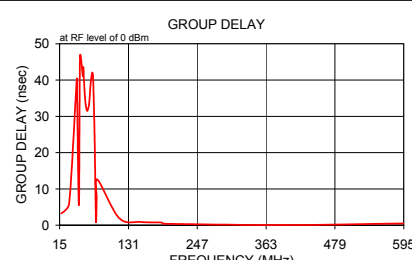
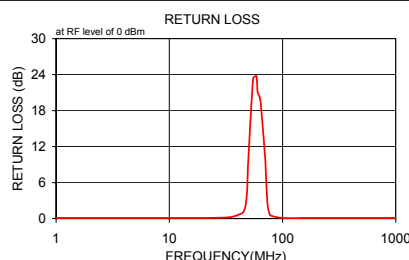


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$	σ			
1.0	84.04	7.1	0.1	17.9	3.240
1.7	85.43	7.0	0.1	31.1	5.995
2.4	76.11	2.6	0.1	43.9	39.921
3.2	74.96	2.8	0.1	44.7	35.653
3.9	71.07	2.3	0.1	46.2	16.491
4.6	67.50	1.7	0.1	47.9	6.771
10.0	54.99	0.4	0.1	49.5	46.457
32.7	30.64	0.9	0.2	54.0	41.142
44.0	33.27	4.8	0.9	55.0	43.528
45.0	29.89	6.3	1.1	55.9	40.065
47.0	15.98	3.6	2.0	57.9	34.902
48.6	7.60	2.1	4.7	58.9	33.283
49.8	3.27	0.7	9.8	61.0	31.633
55.0	1.36	0.1	23.3	62.0	31.517
58.7	1.16	0.1	23.8	64.2	32.819
60.3	1.14	0.1	21.0	65.3	34.547
63.7	1.20	0.1	19.8	66.5	36.948
70.5	2.89	0.3	9.8	67.6	39.519
71.0	3.45	0.3	8.0	70.0	42.124
73.7	9.21	0.6	2.4	71.2	41.298
76.3	18.97	0.8	0.9	73.7	26.181
79.0	34.96	1.1	0.5	76.3	1.540
100.0	27.50	0.5	0.1	77.6	7.179
160.0	40.78	0.6	0.1	79.0	12.528
190.0	45.59	0.7	0.1	115.5	1.937
300.0	61.77	1.7	0.1	152.2	0.901
475.0	68.58	5.7	0.1	187.3	0.734
650.0	53.94	1.4	0.1	190.5	0.405
825.0	46.86	1.7	0.1	393.6	0.055
1000.0	42.22	1.9	0.1	595.7	0.502



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-Circuit's 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

