

Bandpass Filter

PBP-30+

50Ω Elliptic Response 27 to 33 MHz

Maximum Ratings

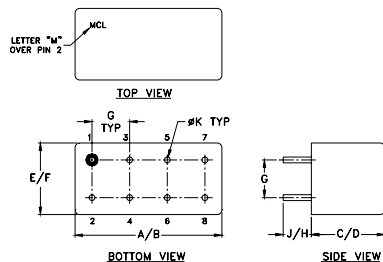
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W max.

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



Generic photo used for illustration purposes only

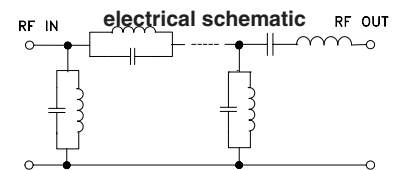
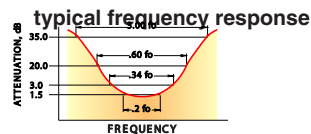
CASE STYLE: A01

+RoHS Compliant

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

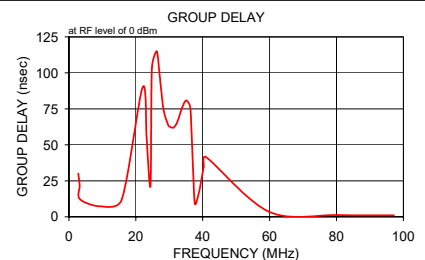
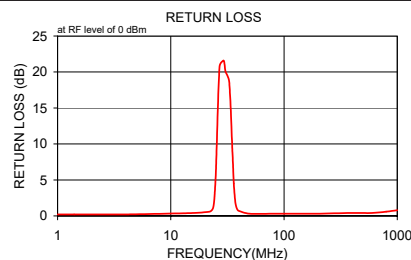
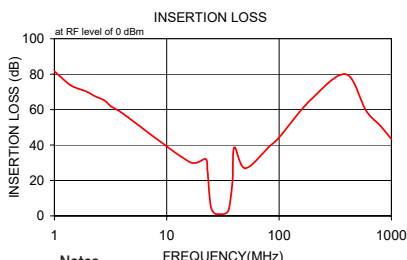
Bandpass Filter Electrical Specifications

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.
30	27-33	25-35	22 & 40	3.2 & 99-1000	1.7	16



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$	σ		
1.0	81.68	9.6	2.8	30.059
1.4	73.69	2.1	3.2	21.884
1.9	70.39	1.8	3.3	12.226
2.3	67.50	1.2	9.6	7.216
2.8	65.09	0.9	15.8	11.923
3.2	61.70	1.3	22.0	89.768
4.0	58.09	0.6	23.2	56.479
16.0	30.42	0.6	23.6	40.798
22.0	32.26	2.3	24.4	22.806
23.0	26.30	1.7	24.8	103.619
23.7	15.68	1.1	26.2	115.164
24.3	8.44	1.0	27.1	99.025
25.0	3.86	0.6	28.0	78.962
27.0	1.28	0.1	28.5	72.223
29.3	1.02	0.1	29.5	64.660
30.5	1.02	0.1	30.0	62.760
32.8	1.16	0.1	31.1	61.836
35.0	2.37	0.3	31.6	62.724
36.0	4.69	0.5	32.2	64.652
37.3	11.24	0.9	32.7	67.765
38.7	21.64	1.2	33.9	76.095
40.0	38.75	2.0	35.1	80.917
50.0	26.83	0.5	36.3	75.838
82.7	39.42	0.4	37.6	9.558
99.0	43.92	0.6	38.9	16.978
190.0	65.36	2.3	40.3	34.601
392.5	80.00	3.9	41.0	41.413
595.0	59.40	2.2	59.9	3.448
797.5	50.83	1.8	80.4	1.230
1000.0	43.35	2.3	97.2	0.971



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.
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