Bandpass Filter

186 to 340 MHz 50Ω

Maximum Ratings

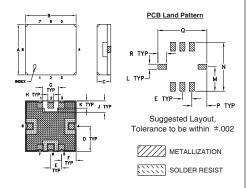
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W at 25°C

Permanent damage may occur if any of these limits are exceeded.

Pin Connections

RF IN	2
RF OUT	6
GROUND	1,3,4,5,7,8

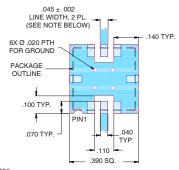
Outline Drawing



Outline Dimensions (inch)

Α	В	С	D	Е	F	G	Н	J
.350	.350	.100	.175	.075	.100	.110	.040	.080
8.89	8.89	2.54	4.45	1.91	2.54	2.79	1.02	2.03
K	L	М	N	Р	Q	R		wt
.050	.040	.195	.390	.120	.390	.070	ç	grams
1.27	1.02	4.95	9.91	3.05	9.91	1.78		0.25
Note:	Pleas	e refe	er to d	case.	style	drawi	ng fo	r details

Demo Board MCL P/N: TB-332 Suggested PCB Layout (PL-176)



1. TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS

1. IRACE WIDTH IS SHOWN FOR FAR WITH DILECTRIC TRICKNESS .025*± .002*; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED. 2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE. DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

- good VSWR, 1.7:1 typ. @ passband
- small size 0.35" x 0.35"
- · shielded case
- · aqueous washable

Applications

- · harmonic rejection
- transmitters / receivers
- · navigation

RBP-253+



Generic photo used for illustration purposes only CASE STYLE: GP731

+RoHS Compliant

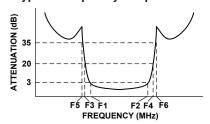
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications



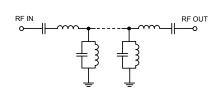
Bandpass Filter Electrical Specifications (T_{AMB}= 25°C)

CENTER FREQ.	PASSBAND (MHz)	STOPBANDS (MHz)			VSWR (:1)			
(MHz)	(Loss < 3dB)	Loss >	> 20dB	Los	s > 35dB	Pass	band	Stopband
Fc	F1 - F2	F3	F4	F5	F6	Тур.	Max.	Тур.
253	186 - 340	140	440	120	500 - 3000	1.7	2.1	18

Typical Frequency Response

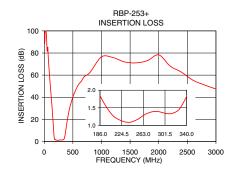


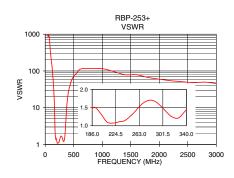
Functional Schematic



Typical Performance Data at 25°C

Frequency Insertion Loss (MHz) (dB)		VSWR (:1)
0.3	97.50	1737.18
50	81.95	868.59
120	41.47	133.63
140	28.14	54.29
163	10.51	9.53
170	5.40	3.68
186	1.82	1.47
253	1.17	1.34
263	1.28	1.52
300	1.35	1.51
340	1.82	1.45
345	2.16	1.69
362	5.38	4.23
380	11.59	11.61
440	29.39	43.44
500	40.20	72.39
2000	78.34	59.91
3000	47.45	45.72





- Notes
 A. 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.

 B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.

 C. 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

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