Bandpass Filter

50Ω 95 to 180 MHz

Maximum Ratings

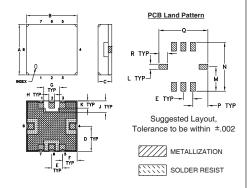
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.25 W at 25°C

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

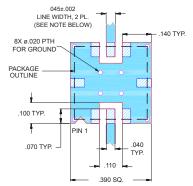


Outline Dimensions (inch)

A .350	.350	.100	D .175	.075	F .100	G . 110	H .040	ل 080 .
8.89	8.89	2.54			2.54		1.02	2.03
K .050 1.27	_	M . 195 4.95	N .390 9.91	P .120 3.05	Q .390 9.91	R .070 1.78	gı	wt. rams 0.25
Note: Please refer to case style drawing for details								

Demo Board MCL P/N: TB-332

Suggested PCB Layout (PL-176)



- 1. TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS 1. TRACE WIDTH IS SHOWN FOR FAY WITH DIELECTRIC 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, 1.3:1 typ. @ passband
- · high rejection
- small size (0.35" X 0.35")
- · shielded case
- · aqueous washable

Applications

- · base station
- · harmonic rejection
- transmitters/receivers

RBP-130+



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



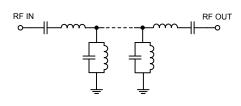
Bandpass Filter Electrical Specifications (T_{AMB}= 25°C)

CENTER FREQ.	STOPBANDS (MHz)				VSWR (:1)			
(MHz)	(Loss < 2.5dB)	Loss:	> 20dB	Los	s > 35dB	Pass	band	Stopband
Fc	F1 - F2	F3	F4	F5	F6	Тур.	Max.	Тур.
130	95 - 180	58	260	48	310 - 2500	1.3	1.9	20

Typical Frequency Response

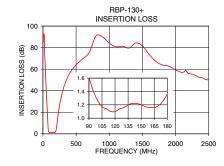
ATTENUATION (dB) 35 20 F5 F3 F1 F2 F4 F6 DC

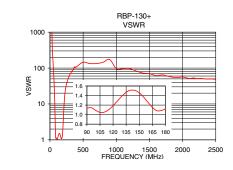
Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
0.5	96.41	1737.18	
48.0	43.71	127.74	
58.0	31.01	63.87	
70.0	15.40	15.81	
75.0	8.88	6.71	
80.0	4.01	2.45	
85.0	2.09	1.22	
95.2	1.40	1.14	
110.2	1.14	1.05	
130.2	1.16	1.39	
150.2	1.20	1.45	
180.2	1.37	1.13	
200.0	4.01	3.23	
210.0	8.44	7.76	
230.0	18.23	22.58	
260.0	29.35	41.37	
310.0	42.28	69.49	
2500.0	49.95	48.26	





- 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