Metal Shield

Bandpass Filter

RBP-130+

50Ω 95 to 180 MHz

CASE STYLE: GP731
PRICE: $13.70 ea QTY (10)

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

Available Tape and Reel at no extra cost

Reel Size	Devices/Reel
7"	10, 20, 50, 100, 200
13"	500,1000

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

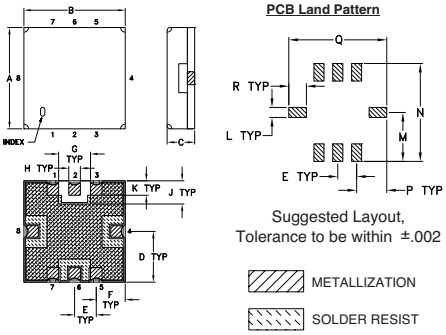
Features

- 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

Outline Drawing

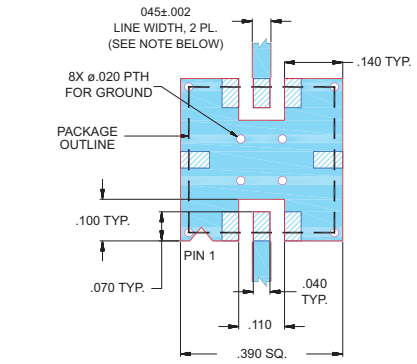


Outline Dimensions (inch / mm)

A	B	C	D	E	F	G	H	J
.350	**.350**	**.100**	**.175**	**.075**	**.100**	**.110**	**.040**	**.080**
8.89	8.89	2.54	4.45	1.93	2.54	2.79	1.02	2.03

K	L	M	N	P	Q	R	wt.
.050	**.040**	**.195**	**.390**	**.120**	**.390**	**.070**	**grams**
1.27	1.02	4.95	9.91	3.05	9.91	1.78	0.25

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



NOTES:
1. TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS .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.

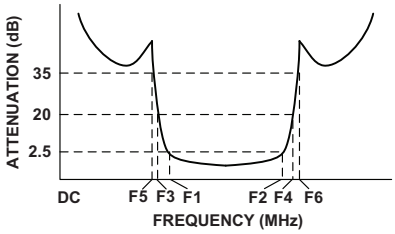
DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

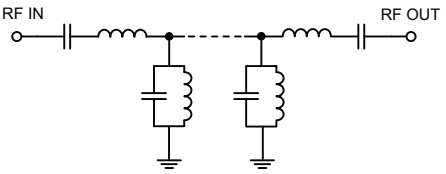
Bandpass Filter Electrical Specifications (T_{AMB}= 25°C)

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

Typical Frequency Response

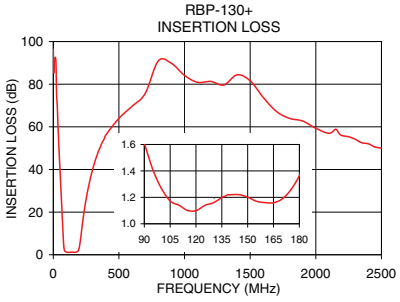


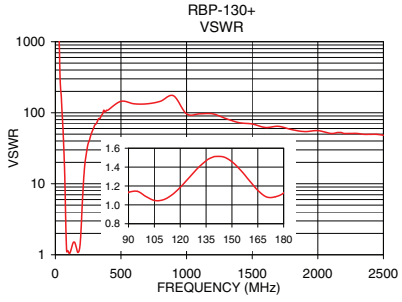
Functional Schematic



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





REV. OR
M120764
EDR-9563UF1
RBP-130+
URJ/RAV
120913