

Bandpass Filter

RBP-135+

50Ω 120 to 150 MHz

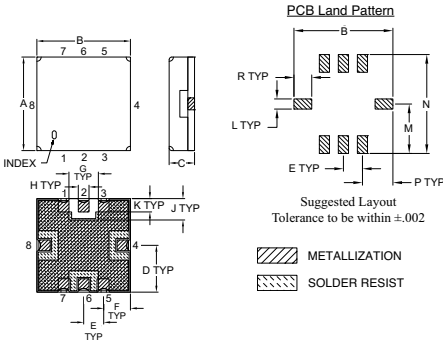
Maximum Ratings

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

Pin Connections

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

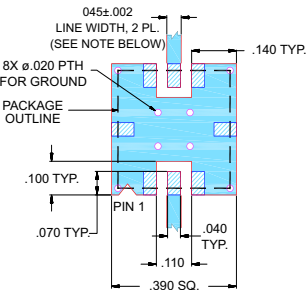
Outline Drawing



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.

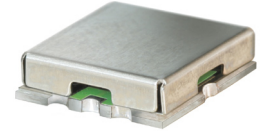
DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
 DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

- Linear Phase, up to ± 6 deg. Typ @ Fc ± 15 MHz
- Good VSWR, 1.3:1 Typ @ Passband
- Small Size (0.35" X 0.35")
- Shielded case
- Aqueous washable

Applications

- Base Station
- Harmonic Rejection
- Transmitters/Receivers



CASE STYLE: GP731
 PRICE: \$15.95 ea. QTY (1-9)

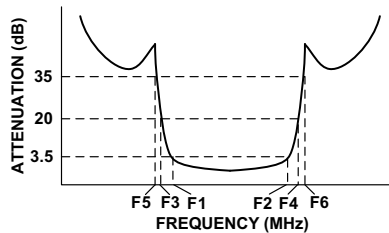
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

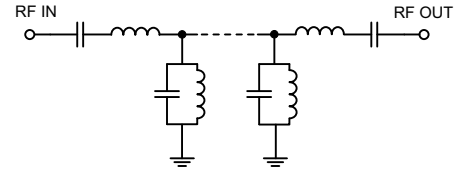
Bandpass Filter Electrical Specifications (T_{AMB} = 25°C)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 3.5dB)	STOPBANDS (MHz)				MAXIMUM DEVIATION FROM LINEAR PHASE (deg.)	VSWR (:1)	
		Loss > 20dB	Loss > 35dB	Passband	Stopband			
Fc	F1 - F2	F3	F4	F5	F6	Fc ± 15MHz	Typ. Max.	Typ.
135	120 - 150	85	210	75	245-2000	±12	1.3 1.8	18

Typical Frequency Response

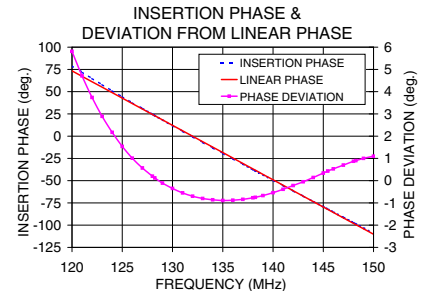
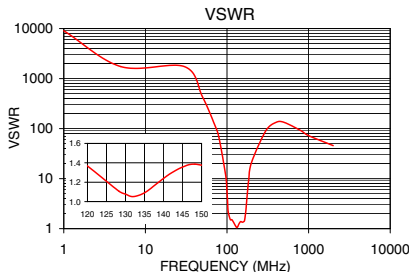
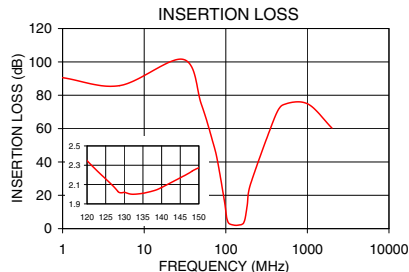


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Deviation from Linear Phase (deg)
1	90.55	9035.28	120	5.81
75	45.52	91.43	122	3.74
85	33.18	43.44	123	2.89
97	15.48	10.37	125	1.54
103	6.30	2.50	127	0.57
120	2.26	1.28	129	-0.11
130	2.02	1.08	130	-0.35
135	2.01	1.09	131	-0.55
140	2.07	1.24	133	-0.80
150	2.28	1.39	135	-0.89
171	5.27	2.48	137	-0.84
181	12.33	7.11	140	-0.54
195	23.07	17.39	143	-0.05
245	45.60	56.04	145	0.34
500	74.19	133.63	147	0.70
1000	74.95	72.39	149	1.00
2000	60.33	45.72	150	1.10



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



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RF/IF MICROWAVE COMPONENTS

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 URJ/RAV
 080603
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