

Bandpass Filter

RBP-135+

50Ω 120 to 150 MHz

Maximum Ratings

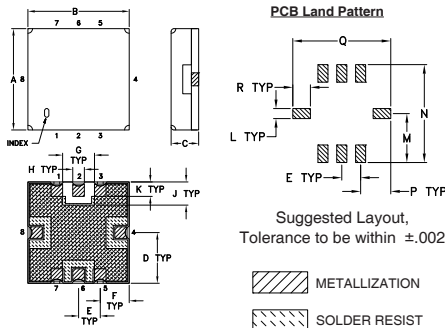
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W at 25°C

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



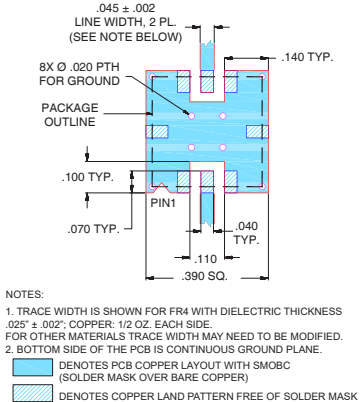
Outline Dimensions (inch/mm)

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	1.91	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	

Note: Please refer to case style drawing for details

Demo Board MCL P/N: TB-332

Suggested PCB Layout (PL-176)



Features

- high rejection
- linear phase, up to ±6deg typ. @ Fc ±15MHz
- good VSWR, 1.3:1 typ. @ passband
- small size 0.35" x 0.35"
- shielded case
- aqueous washable

Applications

- harmonic rejection
- transmitters / receivers
- base station



Generic photo used for illustration purposes only

CASE STYLE: GP731

+RoHS Compliant

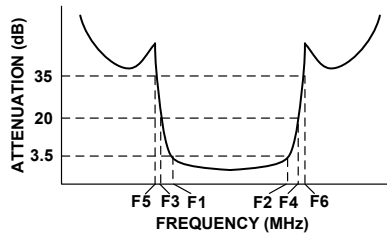
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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

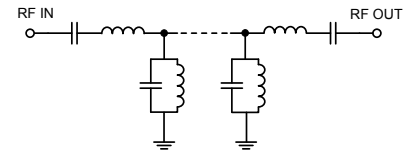
Bandpass Filter Electrical Specifications (T_{AMB} = 25°C)

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

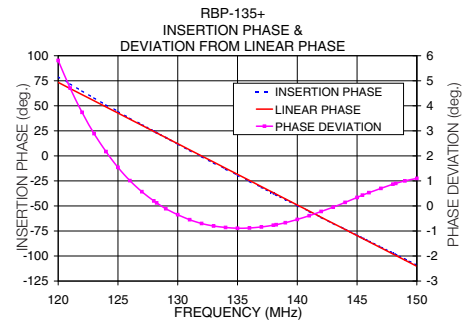
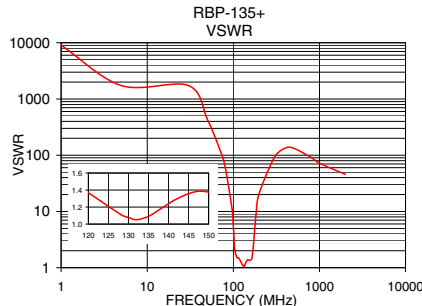
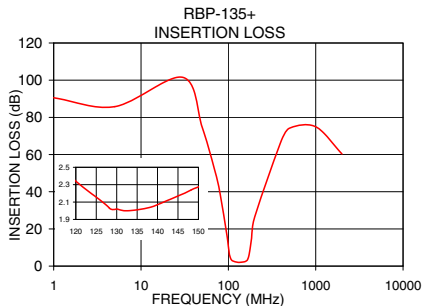


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Deviation from Linear Phase (deg)
1.0	90.55	9035.28	120.0	5.81
40.0	90.05	868.59	122.0	3.74
75.0	45.52	91.43	123.0	2.89
85.0	33.18	43.44	125.0	1.54
95.0	18.74	14.50	127.0	0.57
100.0	10.53	5.47	129.0	-0.11
104.0	5.28	1.93	130.0	-0.35
120.0	2.26	1.28	131.0	-0.55
135.0	2.01	1.09	133.0	-0.80
150.0	2.28	1.39	135.0	-0.89
170.0	4.81	2.24	137.0	-0.84
177.0	9.12	4.79	140.0	-0.54
210.0	31.97	29.46	143.0	-0.05
245.0	45.60	56.04	145.0	0.34
500.0	74.19	133.63	147.0	0.70
1000.0	74.95	72.39	149.0	1.00
2000.0	60.33	45.72	150.0	1.10



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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