

Bandpass Filter

50Ω 120 to 150 MHz

Maximum Ratings

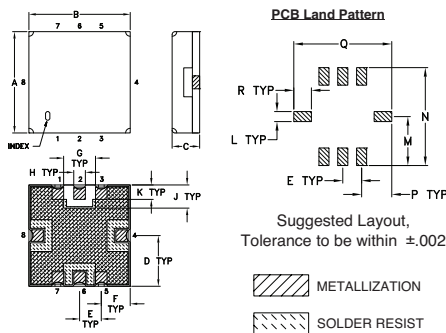
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W at 25°C

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

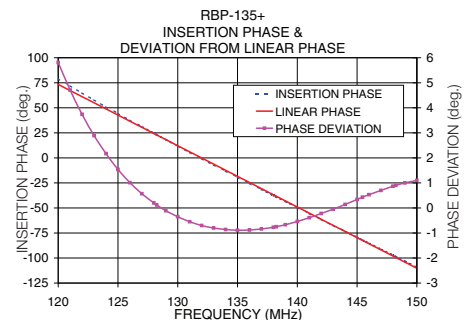
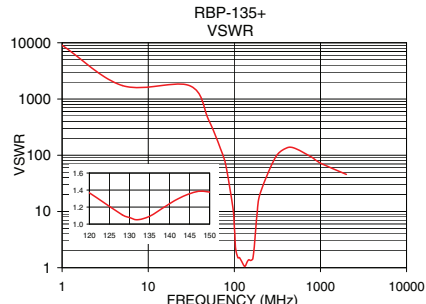
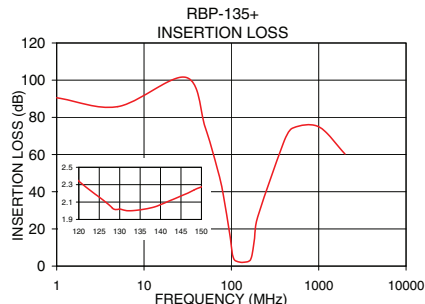
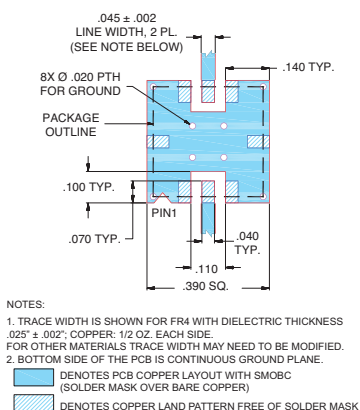


Outline Dimensions (inch/mm)

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	1.93	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)



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



CASE STYLE: GP731

PRICE: \$13.70 ea. QTY (10)

+RoHS Compliant

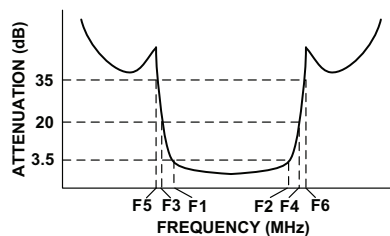
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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

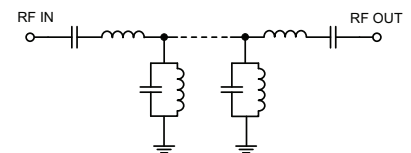
Bandpass Filter Electrical Specifications (T_{AMB} = 25°C)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 3.5dB)	STOPBANDS (MHz)				MAXIMUM DEVIATION FROM LINEAR PHASE (deg.)	VSWR (:1)		
		Loss > 20dB		Loss > 35dB			Passband		Stopband
		F3	F4	F5	F6		Typ.	Max.	Typ.
Fc	F1 - F2					Fc ± 15MHz			
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

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Page 1 of 1