

Bandpass Filter

50Ω 186 to 340 MHz

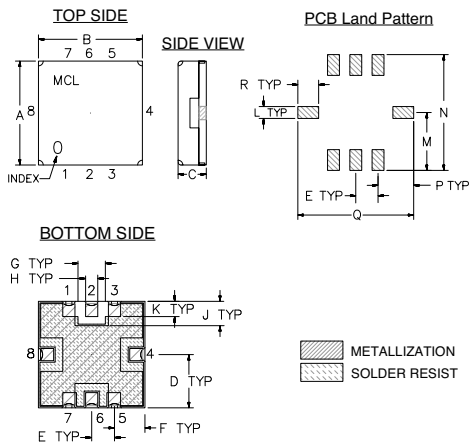
Maximum Ratings

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

Pin Connections

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

Outline Drawing

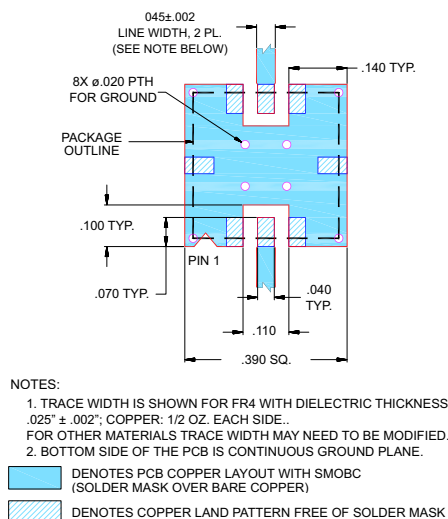


Outline Dimensions (inch mm)

A	B	C	D	E	F	G	H	J
.350	.350	.100	.175	.075	.100	.090	.040	.080
8.89	8.89	2.54	4.45	1.93	2.54	2.29	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

- Good VSWR, 1.7:1 Typ @ Pass Band
- Small Size(0.35" X 0.35")

Applications

- Navigation
- Harmonic Rejection
- Transmitters/Receivers



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

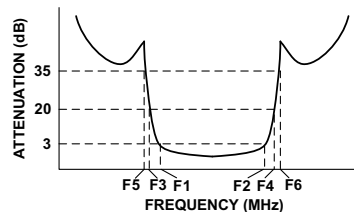
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

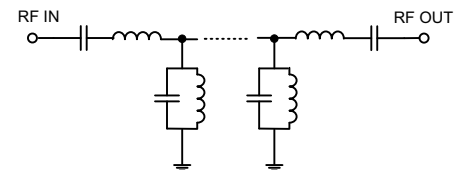
Bandpass Filter Electrical Specifications (T_{AMB} = 25°C)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 3dB) F1 - F2	STOPBANDS (MHz)		VSWR (:1)	
		Loss > 20dB F3 F4	Loss > 35dB F5 F6	Passband Typ.	Stopband Typ.
253	186 - 340	140 440	120 500 - 3000	1.7	18

Typical Frequency Response



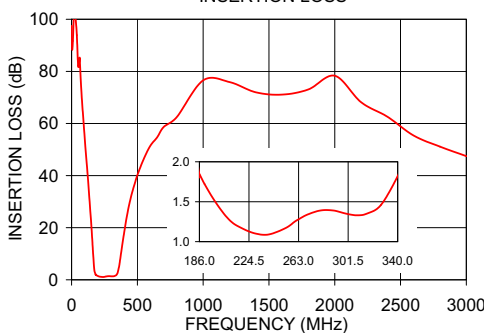
Functional Schematic



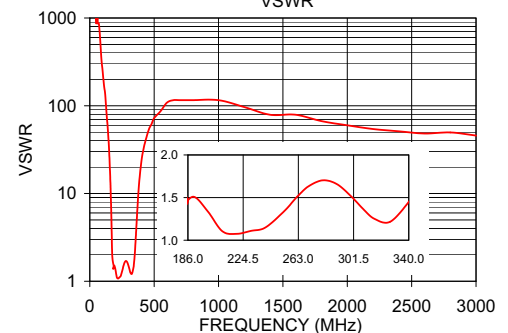
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
0.3	97.50	1737.18
10	91.68	1737.18
50	81.95	868.59
120	41.47	133.63
140	28.14	54.29
163	10.51	9.53
170	5.40	3.68
186	1.82	1.47
263	1.28	1.52
340	1.82	1.45
345	2.16	1.69
362	5.38	4.23
380	11.59	11.61
440	29.39	43.44
500	40.20	72.39
2000	78.34	59.91
3000	47.45	45.72

RBP-253+ INSERTION LOSS



RBP-253+ VSWR



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