

Low Pass Filter

50Ω DC to 137 MHz

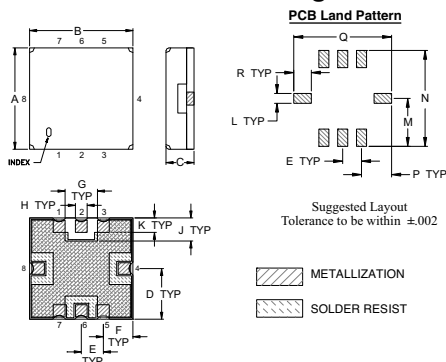
Maximum Ratings

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

Pin Connections

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

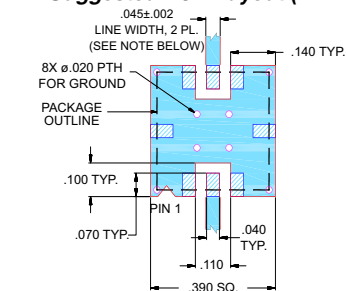
Outline Drawing



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
- Sharp Insertion Loss roll off
- Excellent VSWR, 1.1:1 typ. @ Passband
- Aqueous washable

Applications

- Wireless communications
- Receivers / Transmitters



CASE STYLE: GP731
PRICE: \$7.95 ea. QTY (10-49)

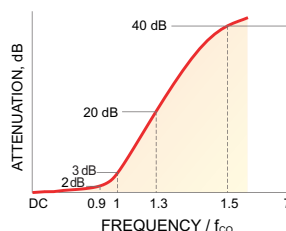
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

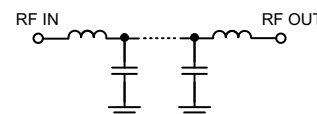
Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

PASSBAND (MHz)	f _{co} , MHz Nom.	STOPBAND (MHz)	VSWR (:1)
(Loss < 2dB)	(Loss 3dB)	(Loss > 20dB) (Loss > 40dB)	Passband Typ. Stopband Typ.
DC - 137	150	190 - 215 215 - 1000	1.1 20

Typical Frequency Response

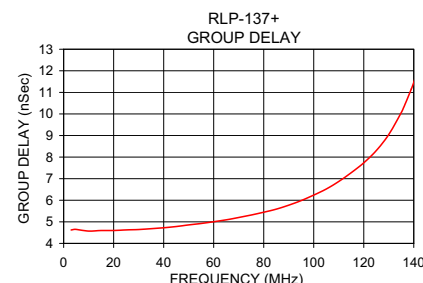
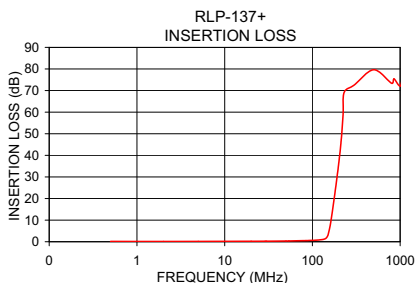


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB) $\bar{x}$	σ	Return Loss (dB)	Frequency (MHz)	Group Delay (nSec)
0.5	0.14	0.01	36.14	2.0	4.84
50.0	0.33	0.00	30.73	5.0	4.65
80.0	0.50	0.01	25.48	10.0	4.57
110.0	0.72	0.01	33.01	20.0	4.60
137.0	1.23	0.03	38.14	30.0	4.64
146.0	2.04	0.10	12.80	40.0	4.72
150.0	2.96	0.15	8.23	50.0	4.86
151.0	3.28	0.17	7.33	55.0	4.92
161.0	8.46	0.25	2.36	60.0	5.00
175.0	18.51	0.26	0.93	70.0	5.20
183.0	24.28	0.26	0.72	80.0	5.44
190.0	29.31	0.27	0.63	90.0	5.77
200.0	36.60	0.29	0.53	100.0	6.24
215.0	48.99	0.49	0.45	110.0	6.87
300.0	72.60	3.25	0.27	120.0	7.74
500.0	79.63	5.04	0.14	130.0	9.05
800.0	73.36	5.27	0.13	137.0	10.58
1000.0	72.09	4.99	0.15	140.0	11.46



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