

Low Pass Filter

50Ω DC to 137 MHz

Maximum Ratings

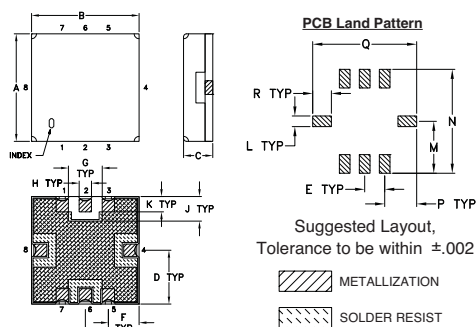
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W Max

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

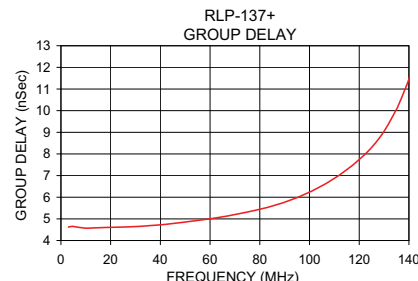
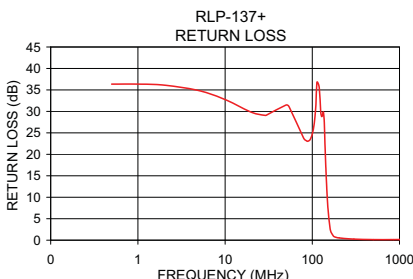
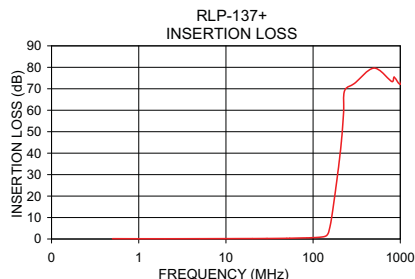
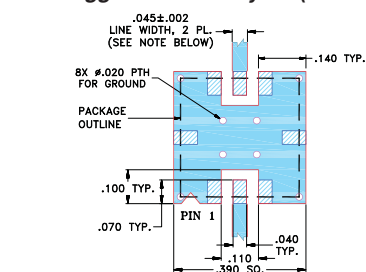


Outline Dimensions (inch/mm)

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
- 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)

+RoHS Compliant

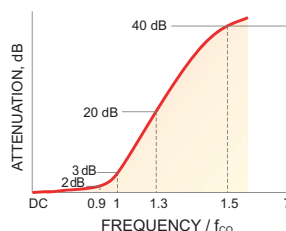
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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

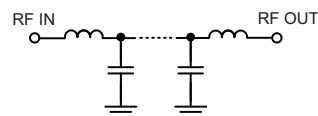
Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

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