

Low Pass Filter

50Ω DC to 105 MHz

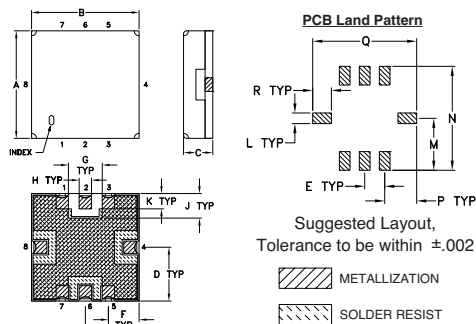
Maximum Ratings

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

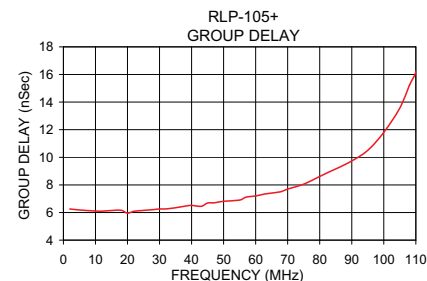
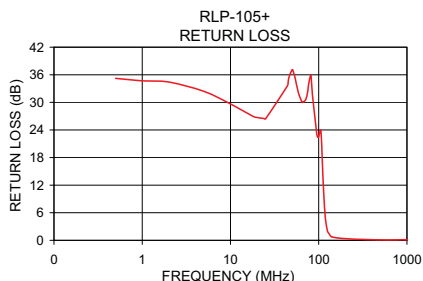
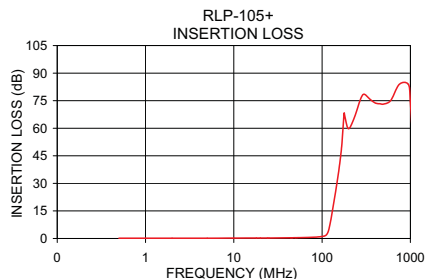
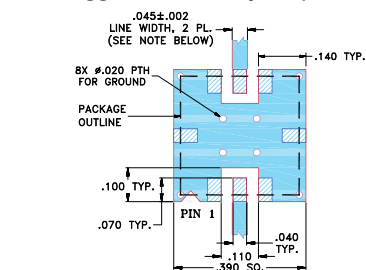
Outline Drawing



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

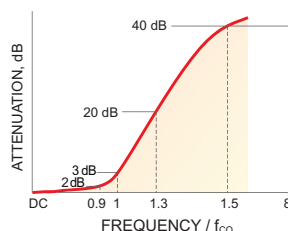
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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

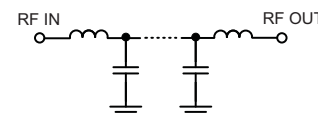
Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

PASSBAND (MHz)	f _{co} , MHz Nom.	STOPBAND (MHz)	VSWR (:1)
(Loss < 2dB)	(Loss 3dB)	(Loss > 20dB) (Loss > 40dB)	Passband Typ. Stopband Typ.
DC - 105	116	145 - 165 165 - 1000	1.1 20

Typical Frequency Response



Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB) $\bar{x}$	Insertion Loss (dB) σ	Return Loss (dB)	Frequency (MHz)	Group Delay (nSec)
0.5	0.13	0.01	35.22	2.0	6.26
10.0	0.20	0.00	29.65	5.0	6.19
50.0	0.41	0.00	37.09	10.0	6.11
75.0	0.63	0.01	32.32	20.0	5.96
85.0	0.75	0.01	31.58	25.0	6.16
100.0	1.08	0.01	22.50	45.0	6.69
105.0	1.28	0.02	24.06	50.0	6.82
112.0	1.99	0.08	13.30	55.0	6.90
116.0	3.18	0.18	7.69	60.0	7.20
120.0	5.42	0.29	4.25	65.0	7.41
126.0	10.34	0.37	1.93	70.0	7.70
145.0	27.98	0.37	0.70	75.0	8.06
165.0	47.88	0.51	0.50	80.0	8.61
180.0	67.19	1.63	0.43	85.0	9.16
300.0	78.51	3.90	0.20	95.0	10.51
500.0	73.18	2.18	0.10	100.0	11.81
750.0	83.89	3.52	0.10	105.0	13.57
1000.0	74.40	3.14	0.14	110.0	16.16

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