

Low Pass Filter

50Ω DC to 70 MHz

Maximum Ratings

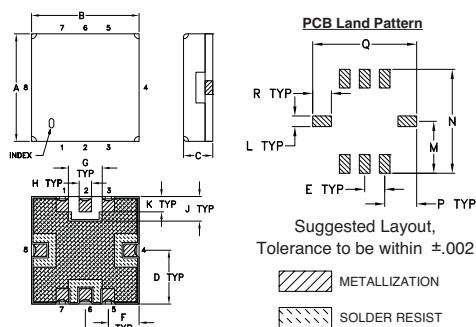
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W Max

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

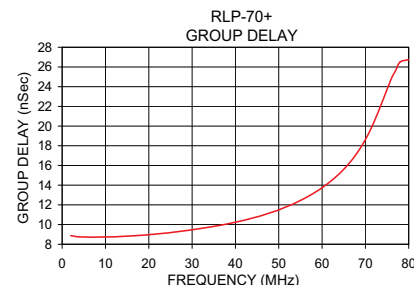
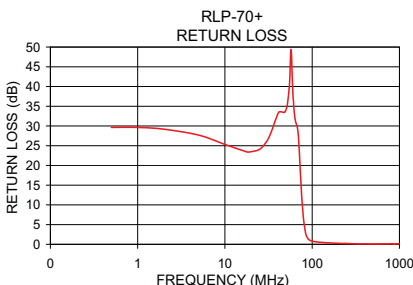
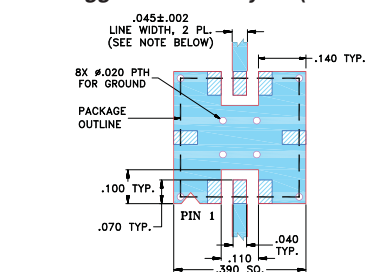


Outline Dimensions (inch/mm)

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

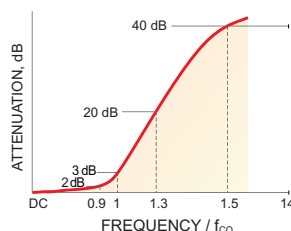
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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

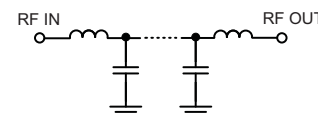
Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

PASSBAND (MHz)	f _{co} , MHz Nom.	STOPBAND (MHz)	VSWR (:1)
(Loss < 2dB)	(Loss 3dB)	(Loss > 20dB) (Loss > 40dB)	Passband Typ. Stopband Typ.
DC - 70	77	100 - 115 115 - 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	0.26 0.01	29.63	2.0	8.88
30.0	0.46 0.00	26.01	4.0	8.73
50.0	0.73 0.01	34.05	10.0	8.72
70.0	1.44 0.03	26.46	16.0	8.84
74.0	1.96 0.07	16.38	20.0	8.98
77.0	2.86 0.13	10.21	26.0	9.24
80.0	4.64 0.23	5.93	30.0	9.48
84.0	8.66 0.34	2.87	36.0	9.88
86.0	11.14 0.36	2.12	40.0	10.24
92.0	19.15 0.38	1.17	46.0	10.90
100.0	29.98 0.41	0.81	50.0	11.51
110.0	44.80 0.63	0.64	56.0	12.70
115.0	54.65 1.12	0.58	60.0	13.75
200.0	75.92 2.39	0.26	66.0	16.08
400.0	76.19 1.55	0.12	70.0	18.62
600.0	84.79 4.15	0.09	76.0	24.82
800.0	78.30 3.25	0.13	77.0	25.65
1000.0	58.09 0.60	0.14	80.0	26.75

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