

Low Pass Filter

50Ω DC to 176 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.

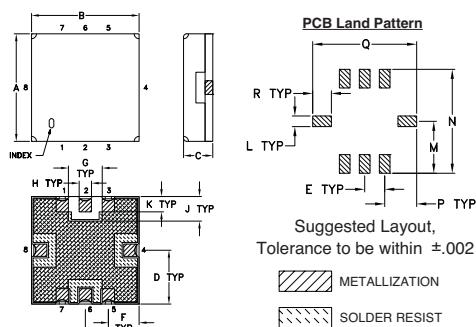
Pin Connections

RF IN 2

RF OUT 6

GROUND 1, 3, 4, 5, 7, 8

Outline Drawing

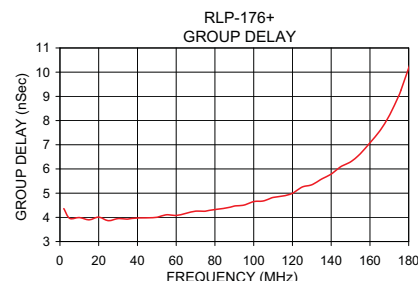
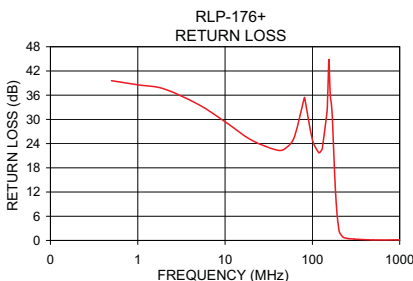
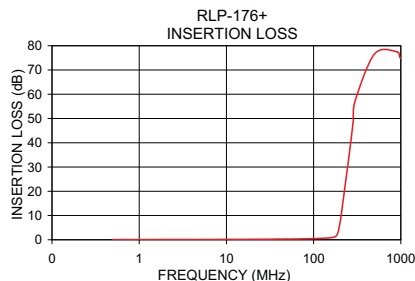
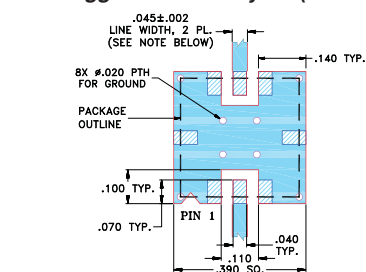


Outline Dimensions (inch/mm)

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

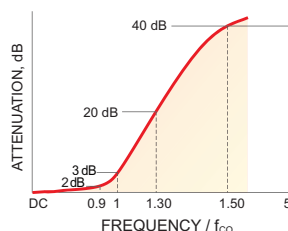
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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

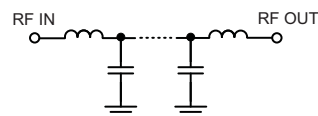
Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

PASSBAND (MHz)	f _{co} , MHz Nom.	STOPBAND (MHz)	VSWR (:1)
(Loss < 2dB)	(Loss 3dB)	(Loss > 20dB) (Loss > 40dB)	Passband Typ. Stopband Typ.
DC - 176	191	245 - 285 285 - 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	0.08	0.01	2.0	4.36
50.0	0.30	0.01	5.0	3.96
100.0	0.48	0.01	10.0	3.99
150.0	0.78	0.01	20.0	4.01
176.0	1.23	0.02	30.0	3.95
185.0	1.97	0.06	40.0	3.98
188.0	2.47	0.09	60.0	4.08
191.0	3.19	0.12	70.0	4.26
200.0	6.60	0.19	80.0	4.33
206.0	9.64	0.21	90.0	4.47
225.0	19.92	0.19	100.0	4.65
245.0	29.97	0.18	110.0	4.82
255.0	34.74	0.17	130.0	5.35
285.0	49.18	0.26	140.0	5.79
300.0	57.36	0.55	150.0	6.29
500.0	76.65	8.71	160.0	7.08
900.0	77.53	6.17	176.0	9.25
1000.0	74.82	4.14	180.0	10.17