

Low Pass Filter

50Ω DC to 30 MHz

Maximum Ratings

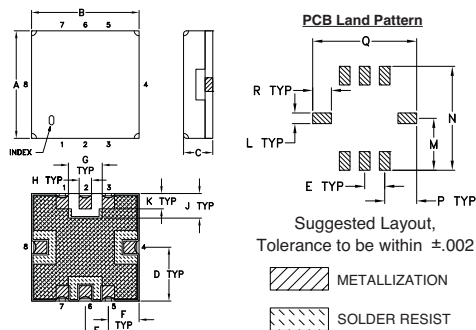
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W Max

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

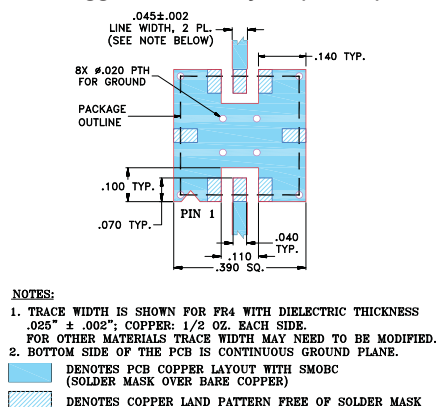


Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J
.350	.350	.150	.175	.075	.100	.110	.040	.080
8.89	8.89	3.81	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	0.50

Demo Board MCL P/N: TB-332 Suggested PCB Layout (PL-176)



Features

- high rejection
- sharp insertion loss roll off
- excellent VSWR, 1.15:1 typ. @ passband
- aqueous washable

Applications

- satellite
- wireless communications
- receivers / transmitters



CASE STYLE: GP1212
PRICE: \$7.95 ea. QTY (10)

+RoHS Compliant

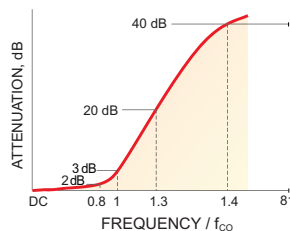
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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

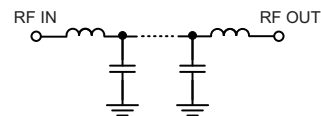
Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

PASSBAND (MHz)	f _{co} , MHz Nom.	STOPBAND (MHz)	VSWR (:1)
(Loss < 2dB)	(Loss 3dB)	(Loss > 20dB) (Loss > 40dB)	Passband Typ. Stopband Typ.
DC - 30	37	47 - 53 53 - 3000	1.15 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	0.50	0.01	0.5	16.64
25.0	0.86	0.01	1.0	16.66
30.0	1.08	0.01	3.0	16.92
36.0	1.85	0.05	5.0	16.88
37.0	2.62	0.14	6.0	16.86
39.0	4.17	0.33	9.0	17.18
40.0	6.92	0.45	10.0	17.34
42.0	12.41	0.68	12.0	17.65
45.0	23.23	0.76	13.0	17.93
47.0	30.50	0.84	15.0	18.49
53.0	50.90	1.81	18.0	19.49
100.0	52.85	0.47	21.0	20.94
500.0	85.89	4.68	23.0	21.98
1000.0	81.99	3.92	24.0	22.50
1400.0	76.06	1.88	25.0	23.31
2000.0	62.57	0.80	27.0	24.92
2600.0	53.56	0.54	28.0	26.15
3000.0	47.74	0.53	30.0	28.61

