

Low Pass Filter

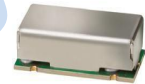
Features

- high rejection
- good VSWR, 1.2:1 typ. @ passband
- shielded case
- aqueous washable

Applications

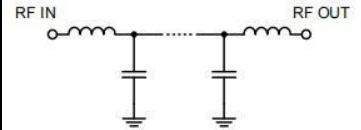
- CDMA
- cellular infrastructure
- wireless communications
- receivers / transmitters

HT-LPF-B0R35+

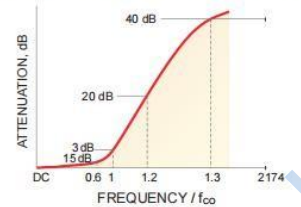


50Ω DC to 0.35 MHz

Functional Schematic



Typical Frequency Response



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

PASSBAND (MHz) (Loss < 1.5dB)	f _{co} (MHz) Nom. (Loss 3dB)	STOPBAND (MHz)		VSWR (:1)	
		(Loss > 20dB)	(Loss > 40dB)	Passband Typ.	Stopband Typ.
DC-0.35	0.57	0.70-0.79	0.79-1000	1.2	20

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	χ	σ			
0.03	0.35	0.02	25.99	0.03	1272.71
0.10	0.33	0.01	18.77	0.05	1230.57
0.20	0.35	0.01	18.25	0.07	1227.66
0.30	0.39	0.01	31.07	0.09	1240.17
0.35	0.46	0.01	34.46	0.11	1244.48
0.39	0.54	0.01	32.08	0.13	1249.43
0.54	1.59	0.15	14.88	0.17	1279.00
0.57	3.62	0.56	5.68	0.20	1313.11
0.59	6.54	0.85	2.82	0.23	1366.08
0.62	12.51	1.01	1.20	0.25	1408.28
0.66	21.26	1.04	0.61	0.27	1438.54
0.70	29.95	1.08	0.44	0.30	1549.84
0.79	51.11	1.62	0.29	0.33	1579.06
1.00	64.18	1.23	0.20	0.35	1641.22
5.00	82.63	2.99	0.14	0.37	1695.07
100.00	91.19	6.08	0.07	0.40	1836.86
500.00	80.42	1.93	0.20	0.45	2152.05
1000.00	67.27	1.21	0.91	0.50	2816.55

Maximum Ratings

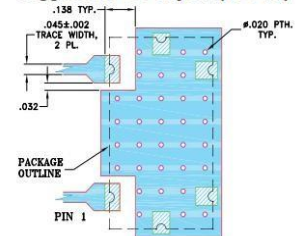
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	0.25W max.

Permanent damage may occur if any of these limits are exceeded.

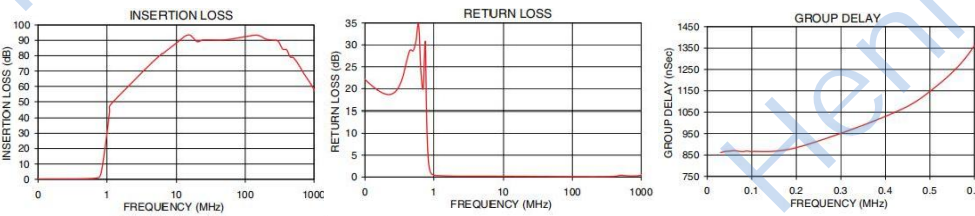
Pin Connections

INPUT	1
OUTPUT	2
GROUND	3,4,5,6

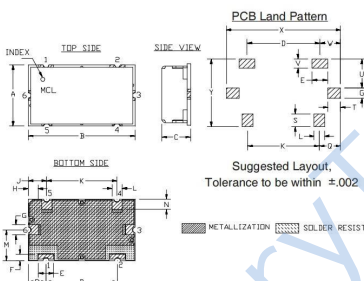
Demo Board MCL P/N: TB-400+ Suggested PCB Layout (PL-247)



- NOTES:
1. TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS 0.025±0.002". COPPER: 1/2 OZ. EACH SIDE.
 2. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
 3. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
 DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK



Outline Drawing



Outline Dimensions: Unit (mm)

	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	S	T	U	V	W	X	Y	WT
	11.99	20.98	5.59	14	3	1.19	1.98	1.92	3.61	13.79	1.98	5.99	2.01	3.51	4.11	2.49	2.44	5.51	1.70	3.99	22	13	