

Low Pass Filter

50Ω DC to 0.8 MHz

LPF-B0R8+

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.

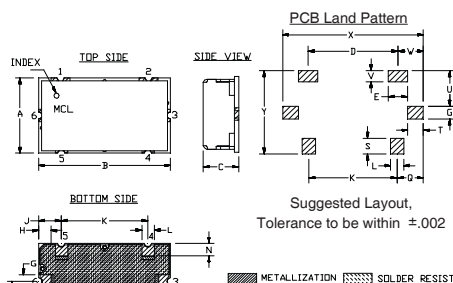
Pin Connections

INPUT 1

OUTPUT 2

GROUND 3, 4, 5, 6

Outline Drawing



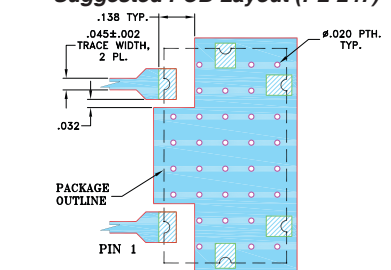
Outline Dimensions (inch)

A	B	C	D	E	F	G	H	J	K	L	M
.472"	.826"	.220"	.551"	.118"	.047"	.078"	.076"	.142"	.543"	.078"	.236"
11.99	20.98	5.59	14.00	3.00	1.19	1.98	1.92	3.61	13.79	1.98	5.99

N	P	Q	S	T	U	V	W	X	Y	wt
.079"	.138"	.162"	.098"	.096"	.217"	.067"	.157"	.866"	.512"	grams
2.01	3.51	4.11	2.49	2.44	5.51	1.70	3.99	22.00	13.00	6.0

Note: Please refer to case style drawing for details.

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



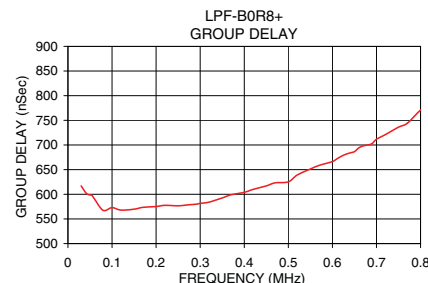
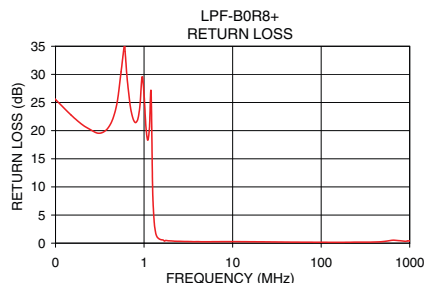
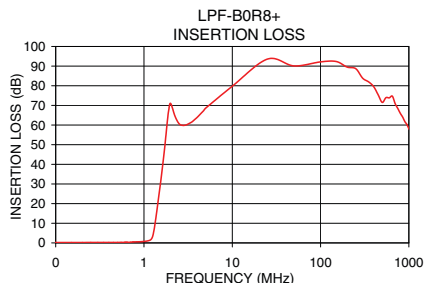
NOTES:

- TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS .025"±.002". COPPER: 1/2 OZ. EACH SIDE.
- FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.

2. 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



Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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Features

- high rejection
- good VSWR, 1.1:1 typ. @ passband
- shielded case
- aqueous washable

Applications

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



Generic photo used for illustration purposes only
CASE STYLE: HZ1198

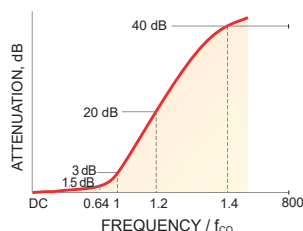
+RoHS Compliant

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

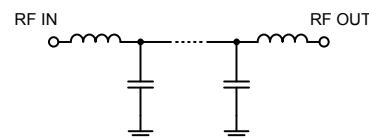
Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

PASSBAND (MHz)	f _{co} , MHz Nom.	STOPBAND (MHz)		VSWR (:1)	
		(Loss > 20dB)	(Loss > 40dB)	Passband Typ.	Stopband Typ.
DC - 0.8	1.25	1.55 - 1.75	1.75 - 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			
0.03	0.16	0.02	0.03	616.97
0.30	0.24	0.01	0.04	603.62
0.63	0.29	0.02	0.05	598.63
0.80	0.52	0.02	0.06	590.63
1.10	1.04	0.03	0.08	567.48
1.20	1.74	0.22	0.10	572.98
1.25	3.19	0.55	0.15	569.80
1.30	6.62	0.83	0.20	575.21
1.35	11.38	0.95	0.25	576.60
1.45	21.66	0.96	0.30	581.55
1.55	31.62	1.00	0.35	592.62
1.75	52.28	1.65	0.40	604.02
4.00	63.88	0.53	0.50	625.22
10.00	79.78	1.22	0.55	651.29
100.00	92.14	4.30	0.60	666.34
500.00	71.51	1.78	0.63	680.95
800.00	66.00	1.68	0.70	711.58
1000.00	58.19	1.61	0.80	770.79

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