

Low Pass Filter

50Ω DC to 0.35 MHz

LPF-B0R35+

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.

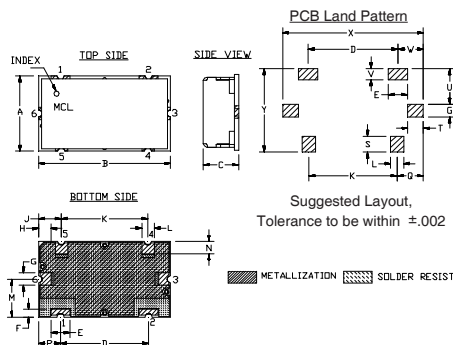
Pin Connections

INPUT 1

OUTPUT 2

GROUND 3, 4, 5, 6

Outline Drawing

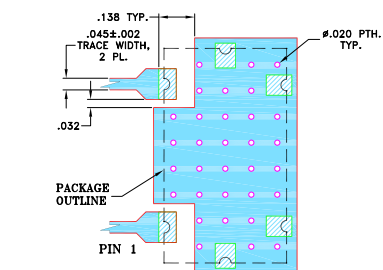


Outline Dimensions (inch mm)

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

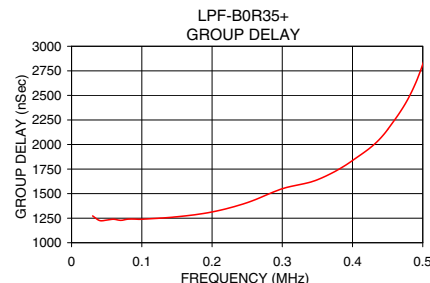
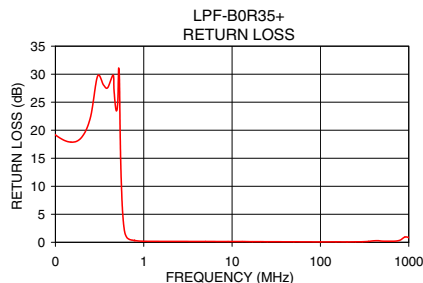
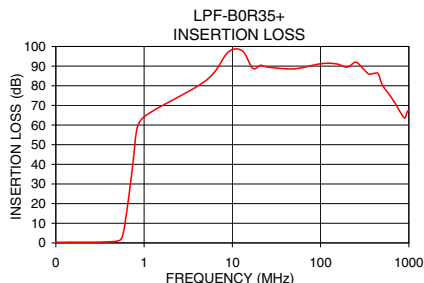
N	P	Q	S	T	U	V	W	X	Y	wt
.079"	.138"	.162"	.098"	.096"	.217"	.067"	.157"	.866"	.512"	grams
2.01	3.51	4.11	2.49	2.44	5.51	1.70	3.99	22.00	13.00	6.0

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.
 - 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

- A. 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.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

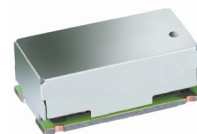

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Features

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

Applications

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



CASE STYLE: HZ1198

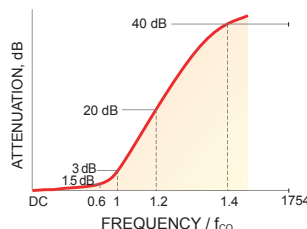
+RoHS Compliant

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

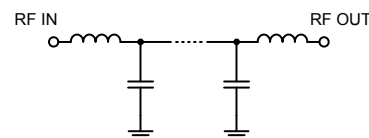
Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

PASSBAND (MHz)	f _{co} , MHz Nom.	STOPBAND (MHz)		VSWR (:1)	
(Loss < 1.5dB)	(Loss 3dB)	(Loss > 20dB)	(Loss > 40dB)	Passband Typ.	Stopband Typ.
DC - 0.35	0.57	0.70 - 0.79	0.79 - 1000	1.2	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	0.35	0.02	0.03	1272.71
0.10	0.33	0.01	0.05	1230.57
0.20	0.35	0.01	0.07	1227.66
0.30	0.39	0.01	0.09	1240.17
0.35	0.46	0.01	0.11	1244.48
0.39	0.54	0.01	0.13	1249.43
0.54	1.59	0.15	0.17	1279.00
0.57	3.62	0.56	0.20	1313.11
0.59	6.54	0.85	0.23	1366.08
0.62	12.51	1.01	0.25	1408.28
0.66	21.26	1.04	0.27	1438.54
0.70	29.95	1.08	0.30	1549.84
0.79	51.11	1.62	0.33	1579.06
1.00	64.18	1.23	0.35	1641.22
5.00	82.63	2.99	0.37	1695.07
100.00	91.19	6.08	0.40	1836.86
500.00	80.42	1.93	0.45	2152.05
1000.00	67.27	1.21	0.50	2816.55