

Surface Mount Low Pass Filter

50Ω DC to 0.7 MHz

Maximum Ratings

Operating Temperature -40°C to 85°C

Storage Temperature -55°C to 100°C

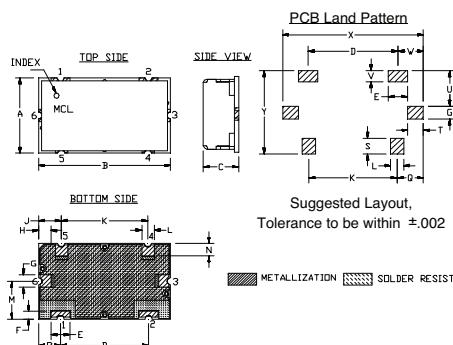
RF Power Input 0.25W Max

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

Pin Connections

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

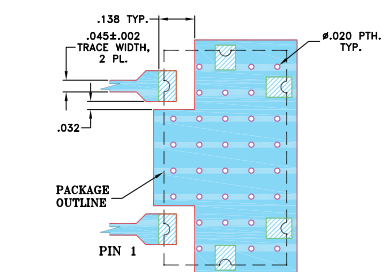
Outline Drawing



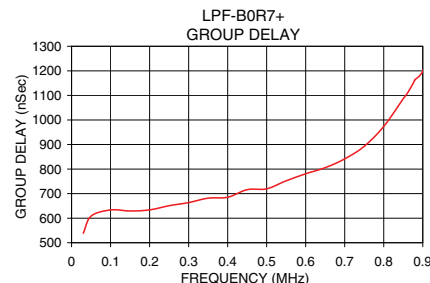
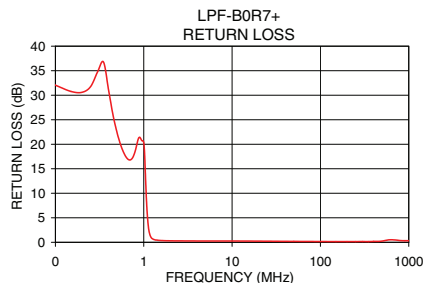
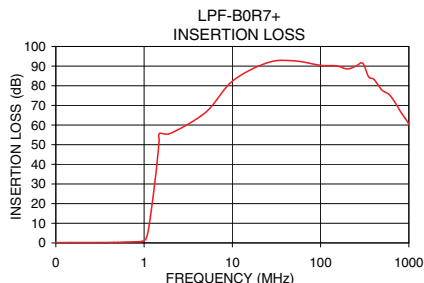
Outline Dimensions (inch mm)

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

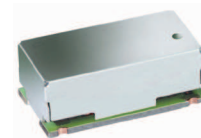


Features

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

Applications

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



CASE STYLE: HZ1198
PRICE: \$9.35 ea. QTY (1-9)

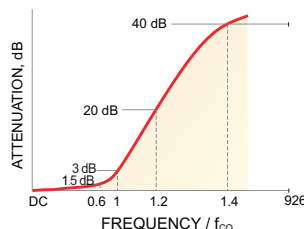
+RoHS Compliant

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

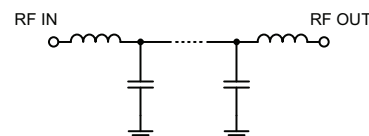
Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

PASSBAND (MHz)	f _{co} , MHz Nom.	STOPBAND (MHz)	VSWR (:1)
(Loss < 1.5dB)	(Loss 3dB)	(Loss > 20dB) (Loss > 40dB)	Passband Typ. Stopband Typ.
DC - 0.7	1.08	1.30 - 1.46 1.46 - 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	0.15	0.03	0.03	538.62
0.10	0.17	0.00	0.05	608.42
0.30	0.20	0.01	0.10	633.47
0.50	0.30	0.01	0.20	633.74
0.60	0.39	0.02	0.30	663.36
0.70	0.48	0.03	0.35	681.41
0.96	0.85	0.07	0.40	685.22
1.04	1.83	0.32	0.45	716.25
1.08	3.57	0.67	0.50	719.68
1.12	6.81	0.98	0.55	752.13
1.18	13.39	1.13	0.60	780.74
1.30	27.77	1.19	0.65	805.77
1.46	49.02	1.83	0.70	841.39
5.00	66.53	0.61	0.75	892.61
10.00	82.33	2.26	0.80	973.76
100.00	90.40	4.41	0.85	1086.39
500.00	77.60	1.99	0.88	1163.22
1000.00	60.51	0.93	0.90	1198.79

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