Ceramic

Low Pass Filter

LFTC-3300+

50Ω DC to 3300 MHz



Generic photo used for illustration purposes only

CASE STYLE: FR933

+RoHS Compliant

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

Available Tape and Reel at no extra cost

Reel Size	Devices/Reel
7"	20, 50, 100, 200, 500, 1000
13"	2000, 3000, 4000

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 125°C

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

Pin Connections

RF IN	2
RF OUT	5
GROUND	1,3,4,6

Product Marking: LLF9

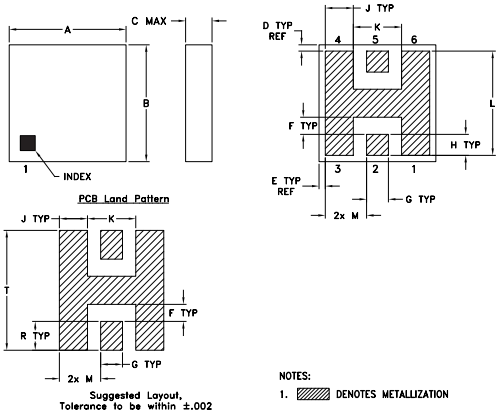
Features

- miniature size, 0.15"X0.15"X0.034"
- low profile, 0.034" height
- excellent power handling, 10W
- hermetically sealed

Applications

- harmonic rejection
- internal rejection
- receivers & transmitters

Outline Drawing



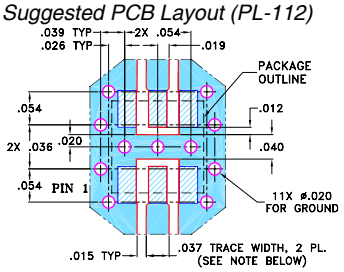
Outline Dimensions (inch / mm)

A	B	C	D	E	F	G	H
.150	.150	.034	.008	.008	.022	.028	.027
3.81	3.81	0.864	0.203	0.203	0.559	0.711	0.686

J	K	L	M	R	T		wt
.036	.062	.134	.053	.037	.154		grams
0.914	1.575	3.404	1.346	0.940	3.912		0.15

Demo Board MCL P/N: TB-233

Suggested PCB Layout (PL-112)



NOTES: 1.TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS 0.020" ± 0.0015"; 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 SOLDER MASK

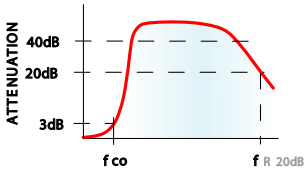
Electrical Specifications[1] (T_{AMB}=25°C)

PASSBAND (MHz) (loss < 1 dB) Typ.	fco, MHz Nom. (loss 3 dB) Typ.	STOP BAND (MHz) (> 20 dB)	STOP BAND (MHz) fr20 dB Typ.	VSWR (:1) Passband Typ.	POWER INPUT* (W)	MARKING	NO. OF SECTIONS
DC-3300	4100	5600	10000	1.2	10	LF9	7

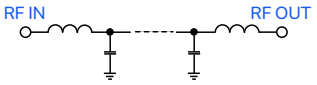
* Derate linearly to 4W at 100°C ambient.

1. Measured on Mini-Circuits Characterization Test Board TB-233.

typical frequency response



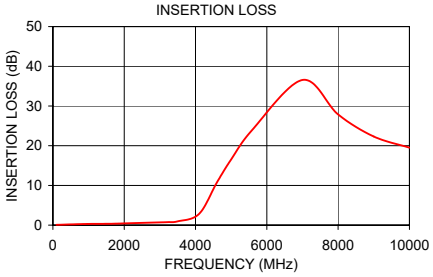
electrical schematic



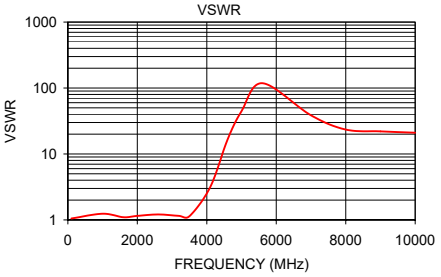
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
100.00	0.08	1.05
1000.00	0.29	1.24
1600.00	0.34	1.10
2000.00	0.44	1.15
2600.00	0.60	1.21
3200.00	0.76	1.15
3500.00	0.95	1.14
4100.00	2.83	3.16
4600.00	10.72	16.69
5000.00	16.54	44.51
5600.00	24.07	118.44
7000.00	36.57	38.64
8000.00	27.88	23.45
9000.00	22.32	22.03
10000.00	19.50	21.00

LFTC-3300+
INSERTION LOSS



LFTC-3300+
VSWR



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