

Ceramic

Low Pass Filter

50Ω

DC to 1350 MHz

LFTC-1350+



Maximum Ratings

Operating Temperature -55°C to 100°C

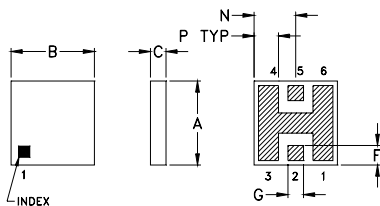
Storage Temperature -55°C to 125°C

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

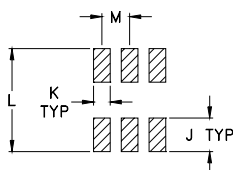
Pin Connections

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

Outline Drawing



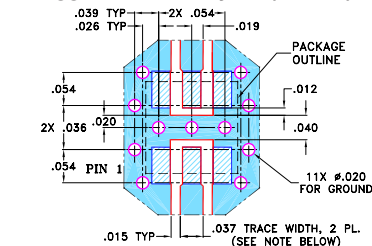
PCB Land Pattern

Suggested Layout,
Tolerance to be within ±0.02

Outline Dimensions (inch)

A	B	C	D	E	F	G	H
.150	.150	.034	--	--	.035	.028	--
3.81	3.81	0.86	--	--	0.89	0.71	--
J	K	L	M	N	P	wt	
.060	.030	.184	.050	.075	.044	grams	
1.52	0.76	4.67	1.27	1.91	1.12	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.

3. DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

4. DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

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

Features

- miniature size, 0.15"X0.15"X0.028"
- low profile, 0.028" height
- excellent power handling, 15W
- hermetically sealed

Applications

- harmonic rejection
- internal rejection
- receivers & transmitters

CASE STYLE: FR933

PRICE: \$3.75 ea. QTY. (20)

+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, 4000

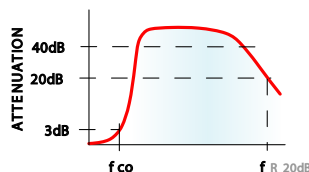
Electrical Specifications¹ (T_{AMB}=25°C)

PASSBAND (MHz)	f _{co} , MHz Nom.	STOP BAND (MHz)			VSWR (:1) Passband	POWER INPUT* (W)	MARKING	NO. OF SECTIONS
(loss < 1 dB)	(loss 3 dB)	fr20 dB						
Typ.	Typ.	(> 20 dB)	(loss > 30 dB)	Typ.	Typ.			
DC-1350	1550	2100	2700-4500	7000	1.2	15	LF1	7

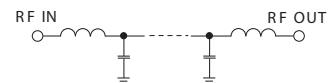
* Derate linearly to 7W at 100°C ambient.

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

typical frequency response

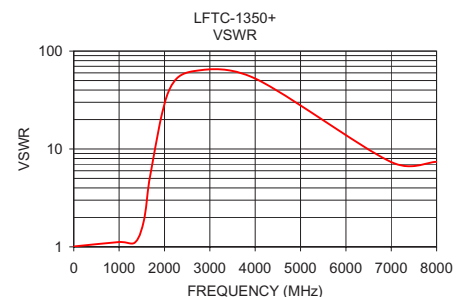
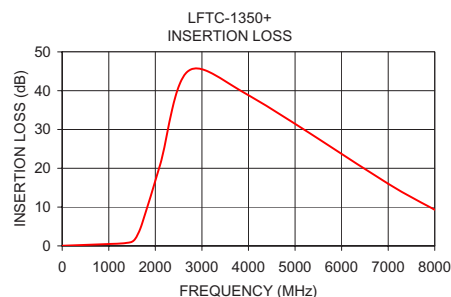


electrical schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
10.00	0.05	1.01
1000.00	0.49	1.12
1350.00	0.72	1.11
1550.00	1.53	1.89
1700.00	5.16	5.81
2100.00	20.75	39.56
2700.00	45.01	62.90
4000.00	38.83	52.45
7000.00	16.02	7.35
8000.00	9.31	7.38



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REV. M
M128692
LFTC-1350+
EDB-020405
AD/YB/CP/AM
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