Ceramic Low Pass Filter

50Ω

DC to 4000 MHz

Maximum Ratings

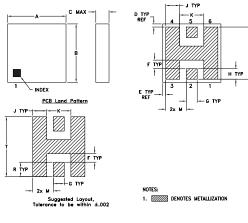
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 125°C
Permanent damage may occur if any of th	ese limits are exceeded.

Pin Connections

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

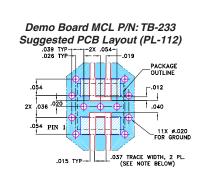
Product Marking: LF10

Outline Drawing



Outline Dimensions (inch)

н	G	F	E	D	С	В	А
.027	.028	.022	.008	.008	.034	.150	.150
0.686	0.711	0.559	0.203	0.203	0.864	3.81	3.81
wt		т	R	м	1	к	
grams			.037				.036
0.15		3.912	0.940	1.346	3.404	1.575	0.914



NOTES: 1.TRACE WIDTH IS SHOWN FOR ROGERS R04350B WITH DIELECTRIC THICKNESS 0.020° ± 0.0015°; COPPER: 1/2 0Z. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED. 2.BOTTOM SIDE OF THE FOE IS CONTINUOUS GROUND PLANE.

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

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 ins 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

Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

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





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

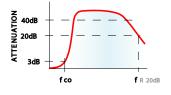
Electrical Specifications¹ (T_{AMB}=25°C)

PASSBAND (MHz)	fco, MHz Nom.		STOP BAND (MHz)		VSWR (:1) Passband	INPUT*	MARKING	NO. OF SECTIONS
(loss < 1 dB)	(loss 3 dB)			fr20 dB		(W)		
Тур.	Тур.	(> 20 dB)		Тур.	Тур.			
DC-4000	5325	7250		9500	1.2	10	LF10	7

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

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

typical frequency response

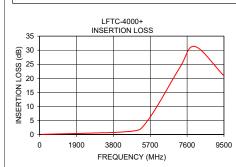


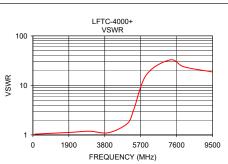
electrical schematic



Typical Performance Data at 25°C

Frequency	Insertion Loss	VSWR
(MHz)	(dB)	(:1)
100.00	0.06	1.04
2000.00	0.39	1.13
3000.00	0.57	1.19
4000.00	0.79	1.11
5000.00	1.44	1.71
5325.00	2.83	3.18
6000.00	9.41	16.39
7250.00	24.10	32.71
8000.00	31.32	23.73
9500.00	20.89	18.69





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