Low Pass Filter

50Ω DC to 2000 MHz

LFTC-2000+





NO. OF

SECTIONS

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

Features

miniature size, 0.15"X0.15"X0.028"

fco, MHz

Nom.

(loss 3 dB)

Тур

2430

Derate linearly to 4W at 100°C ambient.

- low profile, 0.028" height
- excellent power handling, 10W
- hermetically sealed

Applications

- harmonic rejection
- internal rejection

PASSBAND

(MHz)

(loss < 1 dB)

Тур.

DC-2000

receivers & transmitters

CASE STYLE: FR933 PRICE: \$3.75 ea. QTY. (10-49)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

POWER

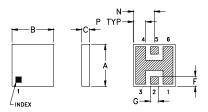
INPUT

(W)

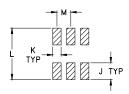
10

MARKING

Outline Drawing



PCB Land Pattern



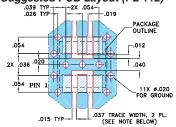
Suggested Layout, Tolerance to be within ±.002

Α	В	С	D	E	F	G	Н
.150	.150	.028			.035	.028	
3.81	3.81	0.71			0.89	0.71	
J	K	L	M	N	Р		wt
J .060	.030	L .184	M .050	N .075	P .044		wt grams

Outline Dimensions (inch)

Α	В	С	D	E	F	G	Н
.150	.150	.028			.035	.028	
3.81	3.81	0.71			0.89	0.71	
J	K	L	M	N	Р		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 0Z. EACH SIDE. FOR OTHER MACETALLS 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)

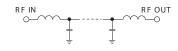
DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

typical frequency response

(> 20 dB)

ATTENUATION 40dB 20dB f co

electrical schematic



Typical Performance Data at 25°C

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

fr20 dB

Тур

8000

VSWR (:1)

Passband

Тур

1.2

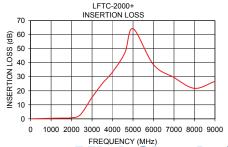
STOP BAND

(MHz)

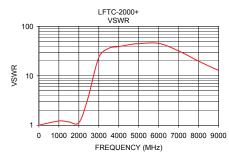
(loss > 40 dB)

4500-5500

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	0.04	1.01
1000.00	0.39	1.22
1500.00	0.53	1.17
2000.00	0.77	1.13
2430.00	2.98	3.23
3000.00	15.33	23.65
3500.00	25.15	36.03
4000.00	33.38	38.95
4600.00	46.96	43.22
5000.00	64.27	44.76
6000.00	38.59	45.25
7000.00	29.45	31.94
8000.00	21.74	19.74
9000.00	26.73	12.84



ISO 9001 ISO 14001 AS 9100 CERTI



For detailed performance specs

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicircuits.com