Ceramic

Low Pass Filter

50 Ω DC to 1000 MHz

Maximum Ratings

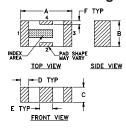
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	10W max at 25°C

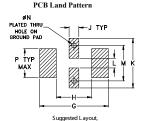
^{*} Passband rating, derate linearly to 3.5W at 100°C ambient. Permanent damage may occur if any of these limits are exceeded.

Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

Outline Drawing

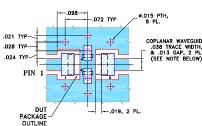




Outline Dimensions (inch)

Α	В	С	D	Е	F	G	
.126	.063	.037	.020	.032	.009	.169	
3.20	1.60	0.94	0.51	0.81	0.23	4.29	
Н	J	K	L	М	N	Р	wt
H .087	J .024	K .122	.024	M .087		P .071	wt grams
						P .071 1.80	

Demo Board MCL P/N: TB-270 Suggested PCB Layout (PL-137)



NOTES: 1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH THICKNESS .020" ± .0015".
COPPER: 1/2 OZ. EACH SIDE.
FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED.

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

Features

- excellent power handling, 10W
- small size
- 7 sections
- temperature stable
- LTCC construction
- protected by U.S Patent 6,943,646

Applications

- harmonic rejection
- VHF/UHF transmitters/receivers
- lab use

LFCN-1000+ LFCN-1000



CASE STYLE: FV1206 PRICE: \$1.99 ea. QTY (10-49)

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

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

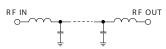
Electrical Specifications¹ at 25°C

Pa	rameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-1000	_	_	1.0	dB
Pass Band	Freq. Cut-Off	F2	1300	_	3.0	_	dB
	VSWR	DC-F1	DC-1000	_	1.3	_	:1
		F3	1550	20	_	_	dB
Ston Bond	Rejection Loss	F4-F5	1900-5000	_	30	_	dB
Stop Band		F6	5500	_	20	_	dB
	VSWR	F3-F6	1550-5500	_	20	_	:1

1. Coupling capacitors at input and output are recommended for use in applications that require DC isolation of input to output port or either port to ground. Alternatively, if DC pass IN - OUT is required, use the "D" version of this model which will support DC IN-OUT, and provide >100 MOhm isolation to ground.

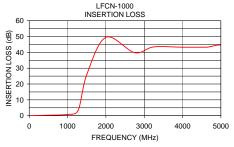
Typical Frequency Response 40 20 DC F1 F2 F3 F4 F5 F6 FREQUENCY

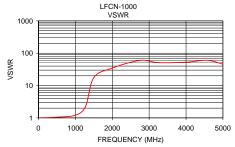
Electrical Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50.00	0.01	1.01
500.00	0.30	1.05
1000.00	0.80	1.21
1275.00	3.33	2.23
1500.00	25.87	17.57
2000.00	49.50	34.75
2750.00	39.80	59.91
3250.00	43.45	51.10
4000.00	43.25	52.65
4600.00	43.25	59.91
5125.00	43.11	41.37
5500.00	22.76	34.75
6000.00	15.24	29.46
6500.00	19.30	62.05
7000.00	18.56	69.49





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For detailed performance specs

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IFIRE MICROWAVE COMPONENTS

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specification