Ceramic

Low Pass Filter

DC to 6000 MHz

NEW!

LFCN-6000

BLUE CELL™

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

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	9W max. at 25°C
DC Current Input to Output	0.5A max. at 25°C

**Passband rating, derate linearly to 3W at 100°C ambient.*

Pin Connections

RF IN	1**
RF OUT	3**
GROUND	2,4

***RF IN & RF OUT can be interchanged*

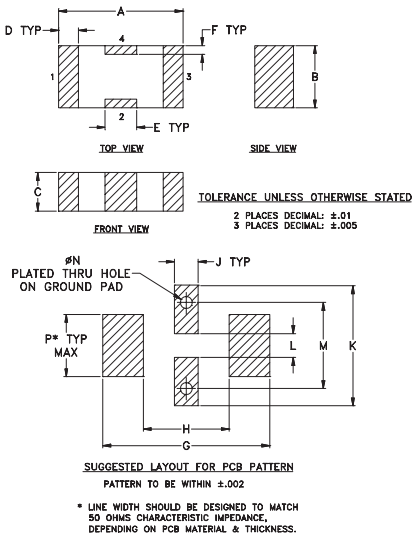
Features

- excellent power handling, 9W
- small size
- 7 sections
- temperature stable
- patent pending

Applications

- harmonic rejection
- transmitters/receivers
- lab use

Outline Drawing

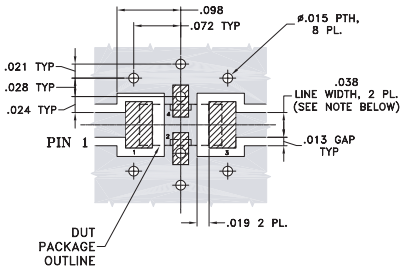


Outline Dimensions (inch / mm)

A	B	C	D	E	F	G	H
.126	.063	.039	.020	.032	.009	.169	.087
3.20	1.60	0.99	0.51	0.81	0.23	4.29	2.21

J	K	L	M	N	P	wt.
.024	.122	.024	.087	.012	.071	grams
0.61	3.10	0.61	2.21	0.30	1.80	.020

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



NOTE:
1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350 WITH DIELECTRIC THICKNESS .020" ± .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.

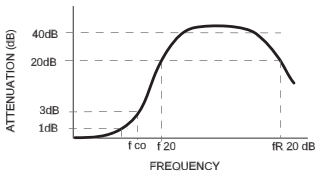
DENOTES PCB COPPER LAYOUT

DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

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

MODEL NO.	PASSBAND (MHz) (loss < 1 dB) Max.	fco, MHz Nom. (loss 3 dB) Typ.	STOP BAND (MHz) (loss, dB) f 20 Min.	30 Typ.	fr 20 Typ.	VSWR (:1) Stopband Typ.	Passband Typ.	NO. OF SECTIONS
LFCN-6000	DC-6000	6800	8300	8500-12000	18000	20	1.3	7

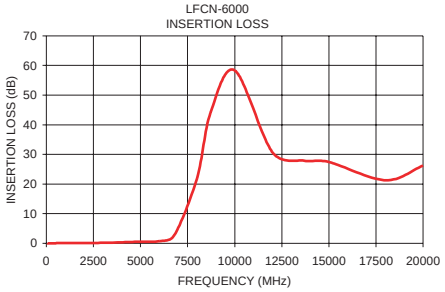
typical frequency response

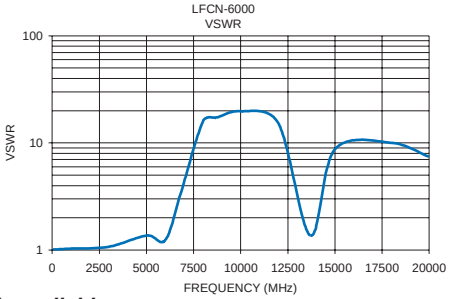


schematic

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50.00	0.10	1.01
100.00	0.02	1.01
1000.00	0.10	1.03
3000.00	0.19	1.07
5000.00	0.57	1.37
6000.00	0.75	1.24
6800.00	2.80	3.31
8000.00	21.90	15.96
8720.00	44.10	17.22
10000.00	58.33	19.76
12000.00	30.77	15.26
13700.00	27.86	1.37
15000.00	27.44	8.72
18000.00	21.31	10.02
20000.00	26.23	7.44





designers kit available

Kit No.	No. of Units in Kit	Description	Price $ per Kit
K2-LFCN	60	5 of each: LFCN-800,-900,-1000,-1200,-1325,-1700, -2000,-2250,-2400,-5000,-6000,-6700	119.95

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