

Ceramic

Low Pass Filter

DC to 2750 MHz

NEW!

LFCN-2750


 **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*	10W max. at 25°C
DC Current Input to Output	0.5A max. at 25°C

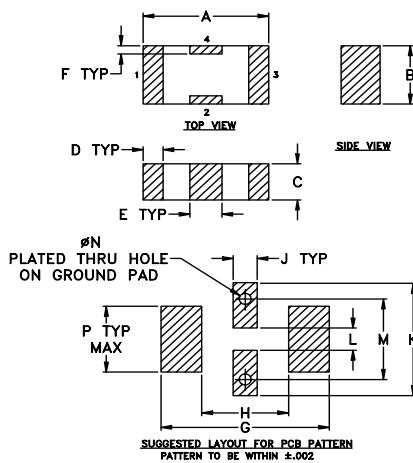
*Passband rating, derate linearly to 3.5W at 100°C ambient.

Pin Connections

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

**RF IN & RF OUT can be interchanged

Outline Drawing



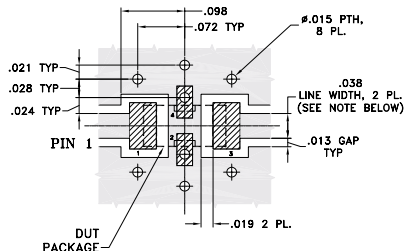
TOLERANCE UNLESS OTHERWISE STATED

2 PLACE DECIMALS: ±.01
3 PLACE DECIMALS: ±.005

Outline Dimensions (inch)

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

Features

- excellent power handling, 10W
- small size
- 7 sections
- temperature stable
- patent pending

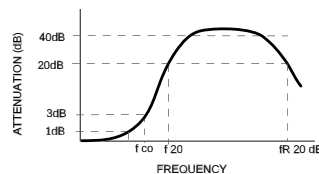
Applications

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

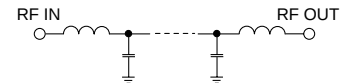
Low Pass Filter Electrical Specifications (T_{AMB}=25°C)

MODEL NO.	PASSBAND (MHz) (loss < 1 dB) Max.	fco, MHz Nom. (loss 3 dB) Typ.	STOP BAND (MHz) (loss, dB)			VSWR (:1)		NO. OF SECTIONS
			f 20 Min.	30 Typ.	fr 20 Typ.	Stopband Typ.	Passband Typ.	
LFCN-2750	DC-2750	3150	3775	3900-6800	8400	20	1.2	7

typical frequency response

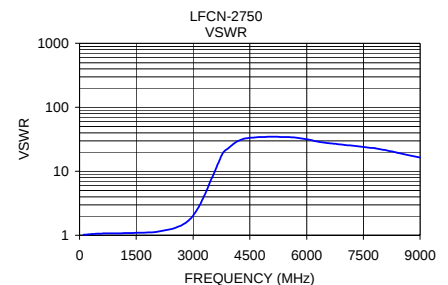
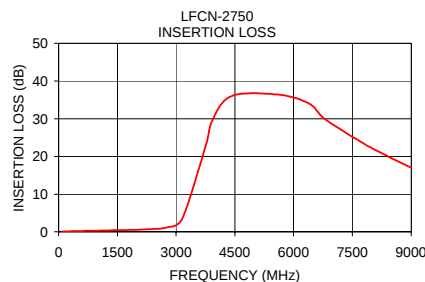


schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
100.00	0.10	1.02
500.00	0.21	1.06
1300.00	0.39	1.09
2100.00	0.61	1.15
2750.00	1.15	1.50
3150.00	3.32	2.79
3775.00	23.45	18.70
3900.00	28.99	22.29
4400.00	35.96	32.79
5600.00	36.40	34.07
6400.00	34.00	28.49
6800.00	29.93	26.74
7800.00	23.36	22.87
8400.00	20.08	19.54
9000.00	17.02	16.41


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