

Ceramic

# Low Pass Filter

DC to 2500 MHz

NEW!

LFCN-2500



BLUE CELL™

CASE STYLE: FV1206

Model	Price	Qty.
LFCN-2500	\$1.99	(10-49)
LFCN-2500D	\$2.49	(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

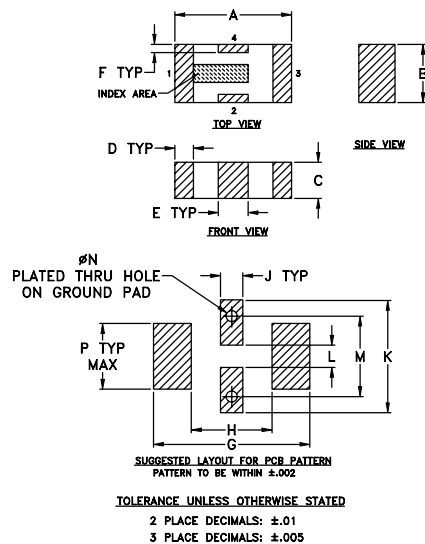
\*Passband rating, derate linearly to 3.5W at 100°C ambient.

## Pin Connections

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

\*\*RF IN &amp; RF OUT can be interchanged

## Outline Drawing



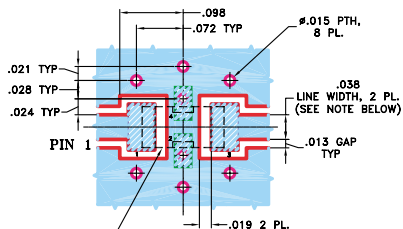
## Outline Dimensions (inch/mm)

A	B	C	D	E	F	G
.126	.063	.037	.020	.032	.009	.169
3.20	1.60	0.94	0.51	0.81	0.23	4.29

H	J	K	L	M	N	P	wt
.087	.024	.122	.024	.087	.012	.071	grams
2.21	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)**



## Features

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

## Applications

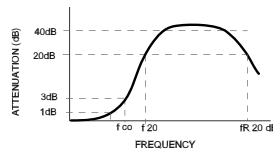
- harmonic rejection
- VHF/UHF transmitters/receivers
- lab use

## Low Pass Filter Electrical Specifications<sup>1</sup> (T<sub>AMB</sub>=25°C)

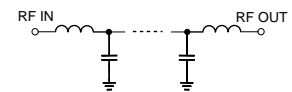
MODEL NO.	PASSBAND (MHz) (loss < 1 dB) Max.	f <sub>co</sub> , MHz Nom. (loss 3 dB) Typ.	STOP BAND (MHz) (loss, dB)			VSWR (:1)		NO. OF SECTIONS
			f 20 Min.	30 Typ.	f <sub>r</sub> 20 Typ.	Stopband Typ.	Passband Typ.	
LFCN-2500	DC-2500	3075	3675	3800-6100	8000	20	1.2	7

1. For Applications requiring DC voltage to be applied to the Input or output, use LFCN-2500D (DC Resistance to ground is 100 Mohms min.)

## typical frequency response

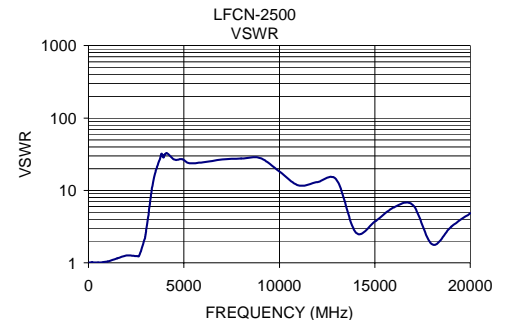
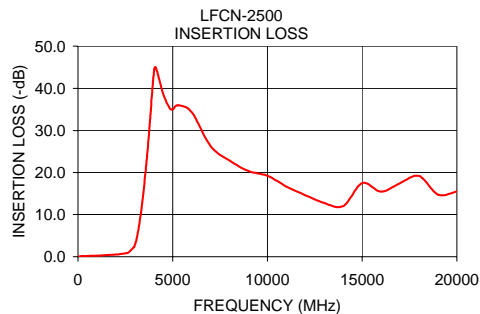


## schematic



## Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.05	1.02
2000	0.50	1.26
2530	0.80	1.24
3000	2.72	2.58
3660	24.30	23.81
3760	29.63	28.03
4000	43.19	31.03
5000	34.98	26.33
6000	34.38	24.48
7000	26.29	26.74
8000	22.85	27.59
10000	19.22	18.30
12000	14.60	13.09
15000	17.48	3.73
20000	15.48	4.84



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