

Ceramic

Low Pass Filter

DC to 3000 MHz

NEW!

LFCN-3000



BLUE CELL™

CASE STYLE: FV1206

Model	Price	Qty.
LFCN-3000	\$1.99	(10-49)
LFCN-3000D	\$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

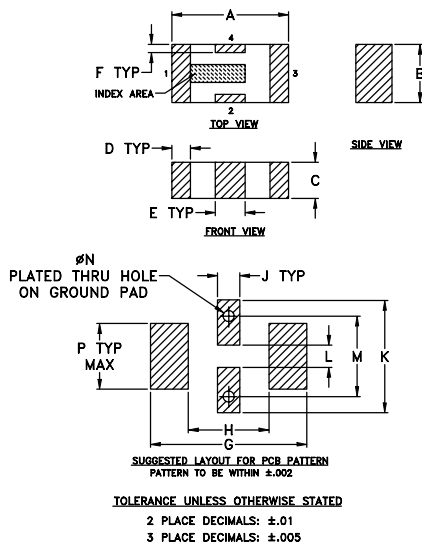
*Passband rating, derate linearly to 3.5W at 100°C ambient.

Pin Connections

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

**RF IN & RF OUT can be interchanged

Outline Drawing

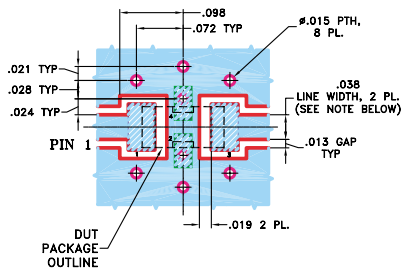


Outline Dimensions (inch)

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

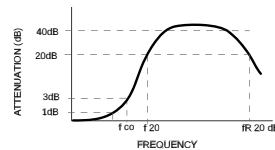
- harmonic rejection
- VHF/UHF transmitters/receivers
- lab use

Low Pass Filter Electrical Specifications¹ (T_{AMB}=25°C)

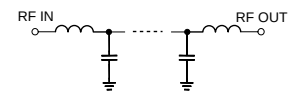
MODEL NO.	PASSBAND (MHz) (loss < 1 dB) Max.	fco, MHz Nom. (loss 3 dB) Typ.	STOP BAND (MHz) (loss, dB)			VSWR (:1)		NO. OF SECTIONS
			f 20 Min.	30 Typ.	fr 20 Typ.	Stopband Typ.	Passband Typ.	
LFCN-3000	DC-3000	3600	4550	4780-7500	10000	20	1.2	7

1. For Applications requiring DC voltage to be applied to the Input or output, use LFCN-3000D (DC Resistance to ground is 100 Mohms min.)

typical frequency response

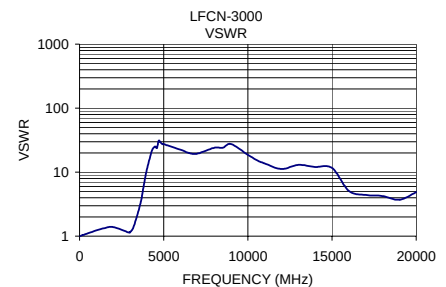
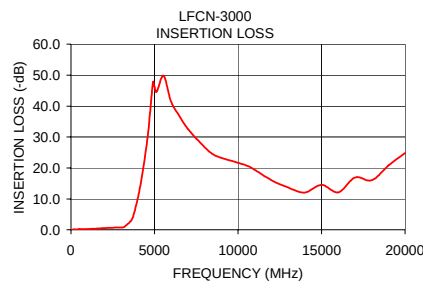


schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	0.03	1.01
1000	0.29	1.23
1500	0.40	1.34
3000	0.77	1.15
3600	2.96	3.08
4480	25.24	25.19
4780	40.44	29.96
5000	46.26	27.59
6500	36.73	19.98
10000	21.68	18.70
11000	19.41	13.70
13000	13.67	12.99
15000	14.56	11.61
17000	16.94	4.41
20000	24.85	4.88



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