

# Ceramic Low Pass Filter

50Ω

DC to 2200 MHz

## LFCN-2250+ LFCN-2250



### 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

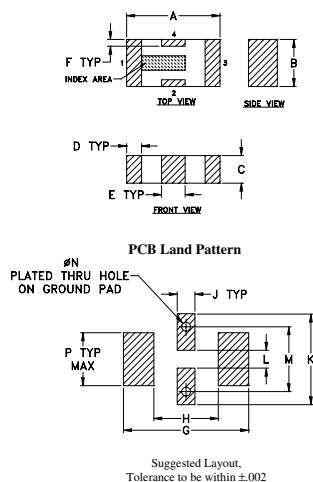
\* Passband rating, derate linearly to 3.5W at 100°C ambient.

### Pin Connections

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

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

### Outline Drawing



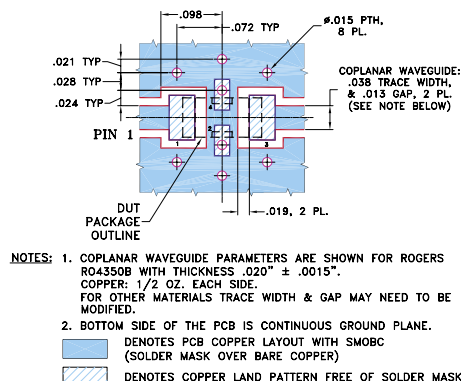
### Outline Dimensions (inch)

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
- protected by U.S. Patent 6,943,646

### Applications

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

CASE STYLE: FV1206

Model	Price	Qty.
LFCN-2250+	\$1.99	(10-49)
LFCN-2250	\$1.99	(10-49)
LFCN-2250D+	\$2.49	(10-49)
LFCN-2250D	\$2.49	(10-49)

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

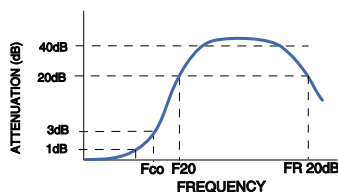
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

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

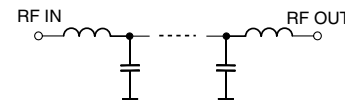
PASSBAND (MHz)  (loss < 1.2 dB)  Max.	fco, MHz Nom.  (loss 3 dB)  Typ.	STOP BAND (MHz) (loss, dB)			VSWR (:1)		NO. OF SECTIONS
		F 20	30	FR 20	Stopband	Passband	
		Min.	Typ.	Typ.	Typ.	Typ.	
DC-2200	2575	2900	3000-5000	7200	20	1.2	7

1. For applications requiring DC voltage to be applied to the Input or output, use LFCN-2250D (DC Resistance to ground is 100 Mohms min.)

### typical frequency response

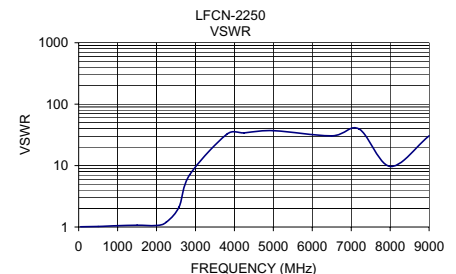
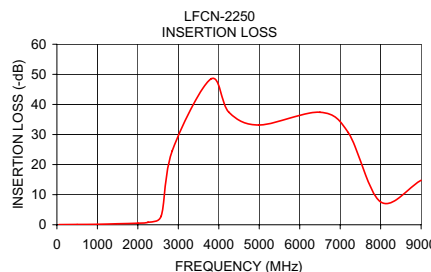


### electrical schematic



### Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50.00	0.06	1.01
500.00	0.11	1.02
1000.00	0.15	1.05
1500.00	0.33	1.07
2000.00	0.51	1.06
2250.00	0.82	1.20
2575.00	2.84	2.10
2850.00	24.55	7.08
3800.00	48.40	32.18
4250.00	37.39	34.07
5000.00	33.16	36.97
6500.00	37.38	30.49
7200.00	30.64	39.49
8000.00	7.60	9.69
9000.00	14.79	30.49



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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