

Ceramic

Low Pass Filter

50Ω

DC to 2400 MHz

LFCN-2400D-1+



CASE STYLE: FV1206
PRICE: \$2.49 ea. QTY (20)

Maximum Ratings

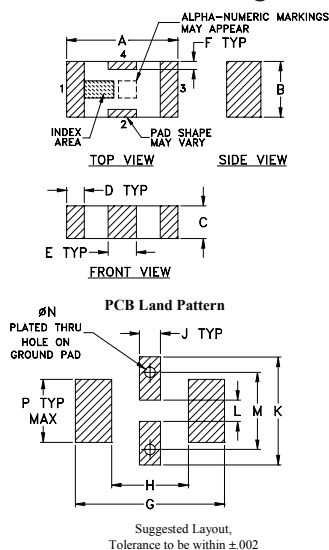
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	9W max. at 25°C
Max. DC Voltage at pins 1&3	25 VDC
DC Current Input to Output	0.5A max. at 25°C

* Derate linearly to 4W at 100°C ambient.
Permanent damage may occur if any of these limits are exceeded.

Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

Outline Drawing

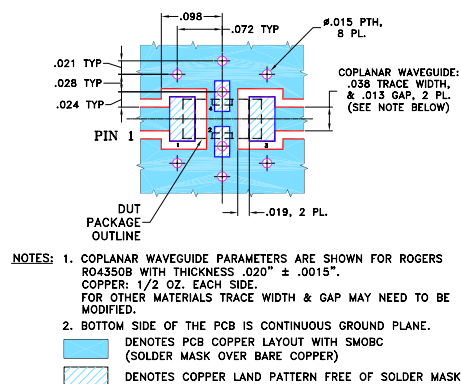


Outline Dimensions (inch)

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, 9W
- small size
- 5 sections
- temperature stable
- LTCC construction

Applications

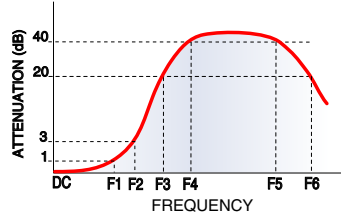
- harmonic rejection
- VHF/UHF transmitters/receivers
- lab use

Electrical Specifications¹ at 25°C

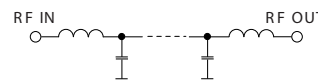
Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-F1	DC-2400	—	—	1.5 dB
	Freq. Cut-Off	F2	2800	—	3.0	dB
	VSWR	DC-F1	DC-2400	—	1.2	:1
Stop Band	Rejection Loss	F3	3600	20	—	dB
		F4-F5	3700-4000	—	30	dB
		F6	5000	—	20	dB
	VSWR	F3-F6	3600-5000	—	20	:1

1. DC Resistance to ground is 100 Mohms min.

Typical Frequency Response

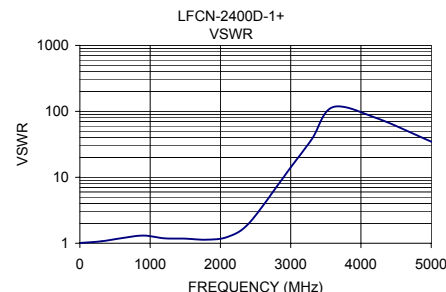
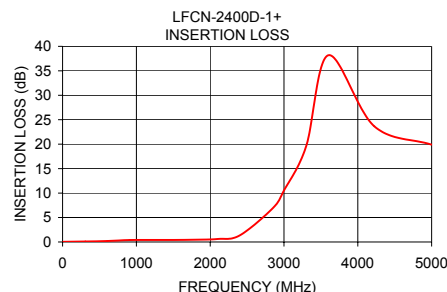


Electrical Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
10.00	0.03	1.01
308.75	0.10	1.07
607.50	0.20	1.20
906.25	0.39	1.31
1205.00	0.41	1.19
1503.75	0.41	1.17
1802.50	0.46	1.13
2101.25	0.62	1.25
2400.00	1.34	1.97
2850.00	6.94	8.51
3000.00	10.53	14.15
3300.00	19.58	37.77
3600.00	38.18	115.81
4222.22	23.66	78.97
5000.00	19.90	34.75



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REV. OR
M126522
LFCN-2400D-1+
ED-9913/5
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