

Ceramic Low Pass Filter

50Ω DC to 2200 MHz

LFCN-2250D+



Maximum Ratings

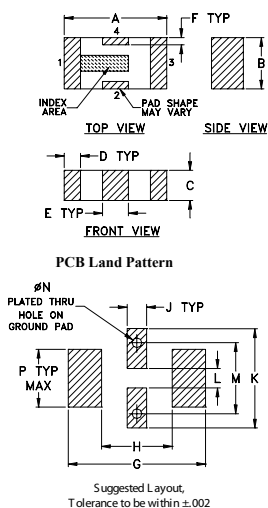
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	10W max. at 25°C

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

Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

Outline Drawing

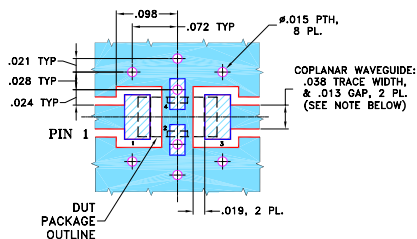


Outline Dimensions (inch)

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)



- NOTES:
- COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH THICKNESS .020" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED.
 - BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE. DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
 - DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

- excellent power handling, 10W
- small size
- 7 sections
- temperature stable
- protected by U.S Patent 6,943,646

Applications

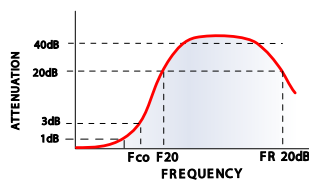
- harmonic rejection
- VHF/UHF transmitters/receivers
- lab use

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

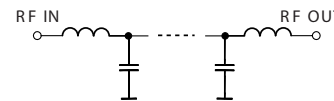
PASSBAND (MHz)	f _{co} , MHz Nom.	STOP BAND (MHz) (loss, dB)			VSWR (:1)		NO. OF SECTIONS
		F 20	30	FR 20	Stopband	Passband	
(loss < 1.2 dB)	(loss 3 dB)	Min.	Typ.	Typ.	Typ.	Typ.	
DC-2200	2575	2900	3000-5000	7200	20	1.2	7

1. DC Resistance to ground is 100 Mohms min.

typical frequency response

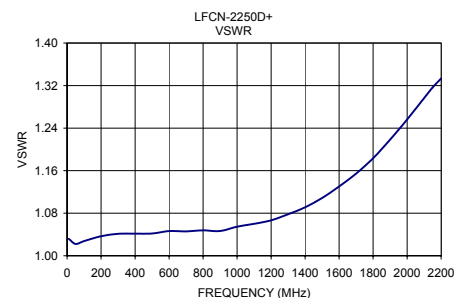
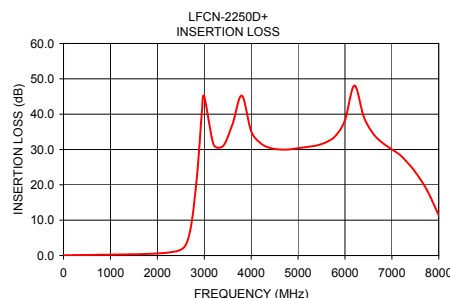


electrical schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
10.00	0.02	1.03
500.00	0.16	1.04
1000.00	0.23	1.05
2200.00	0.79	1.33
2300.00	0.95	1.36
2400.00	1.19	1.36
2500.00	1.64	1.36
2550.00	2.09	1.44
2600.00	2.88	1.69
2650.00	4.39	2.26
2750.00	11.10	4.96
2850.00	23.25	8.77
2950.00	40.72	11.69
7000.00	30.04	24.48
8000.00	11.32	11.24



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The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

IF/RF MICROWAVE COMPONENTS

REV. G
M121640
LFCN-2250D+
ED-13263/5
AD/CP/AM
090218