

Ceramic Low Pass Filter

50Ω DC to 1325 MHz

LFCN-1325+ LFCN-1325



Maximum Ratings

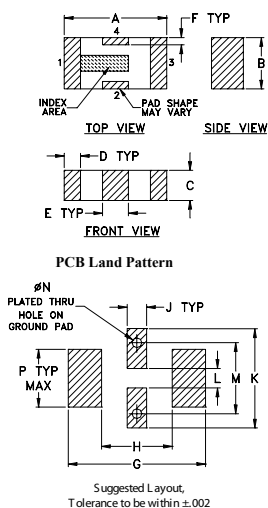
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	9W max. at 25°C
DC Current Input to Output	1A max. at 25°C

* Passband rating, derate linearly to 4W at 100°C ambient.

Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

Outline Drawing

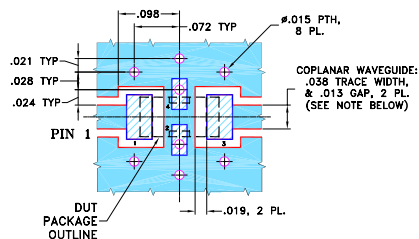


Outline Dimensions (inch)

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

Applications

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

CASE STYLE: FV1206

Model	Price	Qty.
LFCN-1325+	\$1.99	(10-49)
LFCN-1325	\$1.99	(10-49)
LFCN-1325D+	\$2.49	(10-49)
LFCN-1325D	\$2.49	(10-49)

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

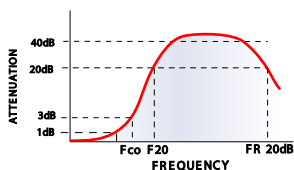
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications.

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

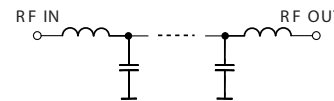
PASSBAND (MHz) (loss < 1.3 dB)	f _{co} , MHz Nom. (loss 3 dB)	STOP BAND (MHz) (loss, dB)			VSWR (:1)		NO. OF SECTIONS
		F 20	30	FR 20	Stopband	Passband	
Max.	Typ.	Min.	Typ.	Typ.	Typ.	Typ.	
DC-1325	1560	2100	2200	4250	20	1.4	5

1. For applications requiring DC voltage to be applied to the Input or output, use LFCN-1325D (DC Resistance to ground is 100 Mohms min.)

typical frequency response

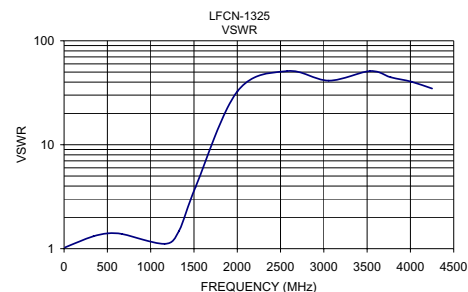
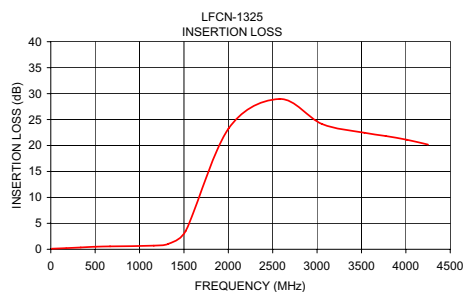


electrical schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
10.00	0.12	1.03
174.38	0.23	1.17
338.75	0.36	1.32
503.13	0.50	1.40
667.50	0.56	1.38
1160.63	0.71	1.11
1325.00	1.06	1.47
1518.75	3.52	3.91
2003.13	23.27	32.79
2577.77	28.97	51.10
3055.55	24.14	41.37
3533.33	22.45	51.10
3772.22	21.83	44.55
4011.11	21.11	40.41
4250.00	20.18	34.75



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IF/RF MICROWAVE COMPONENTS

REV. H
M121640
LFCN-1325
ED-9913/3
RVN/AD/CP/AM
090218