

Ceramic

Low Pass Filter

NEW!

LFCN-95

DC to 95 MHz



BLUE CELL™

CASE STYLE: FV1206

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	8.5W max. at 25°C
DC Current Input to Output	0.5A max. at 25°C

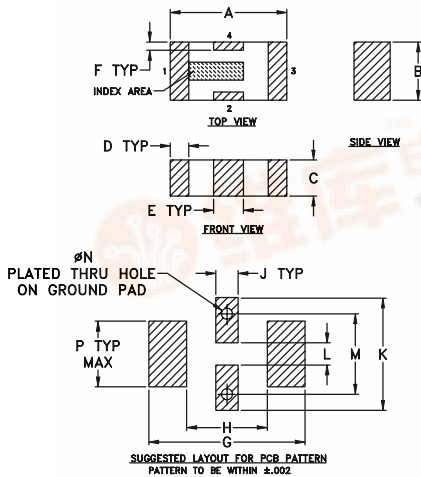
*Passband rating, derate linearly to 3.5W at 100°C ambient.

Pin Connections

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

**RF IN & RF OUT can be interchanged

Outline Drawing



TOLERANCE UNLESS OTHERWISE STATED

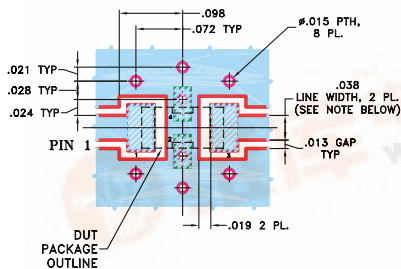
- 2 PLACE DECIMALS: ±.01
- 3 PLACE DECIMALS: ±.005

Outline Dimensions (inch/mm)

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)



NOTE: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350 WITH DIELECTRIC THICKNESS .020" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

① DENOTES PCB COPPER LAYOUT
② DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

Features

- excellent power handling, 8.5W
- small size
- 7 sections
- temperature stable
- patent pending

Applications

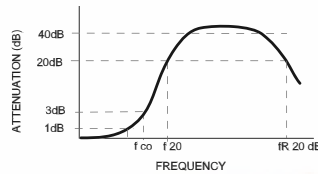
- harmonic rejection
- VHF/UHF transmitters/receivers
- RF suppression for DC lines on PCB
- anti-aliasing for A/D converter

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

MODEL NO.	PASSBAND (MHz) (loss < 1 dB) Max.	f _{co} , MHz Nom. (loss 3 dB) Typ.	STOP BAND (MHz) (loss, dB)		VSWR (:1)		NO. OF SECTIONS	
			f 20 Min.	40 Typ.	fr 20 Typ.	Stopband Typ.		Passband Typ.
LFCN-95	DC-95	165	220	240-1600	4500	20	1.2	7

1. For Applications requiring DC voltage to be applied to the Input or output, use LFCN-95D (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)
1.00	0.21	1.05
95.00	0.89	1.12
165.00	3.29	2.13
185.00	6.95	4.41
200.00	12.69	7.60
220.00	25.31	10.37
240.00	40.82	12.18
300.00	36.40	15.53
500.00	46.32	29.96
700.00	61.06	48.26
1050.00	52.77	82.73
1750.00	39.88	62.05
2750.00	28.46	43.44
3750.00	23.85	11.46
4750.00	20.64	19.11

