

Ceramic

Low Pass Filter

DC to 120 MHz

NEW!

LFCN-120



BLUE CELL™

CASE STYLE: FV1206

Model	Price	Qty.
LFCN-120	\$3.99	(10-49)
LFCN-120D	\$4.49	(10-49)

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

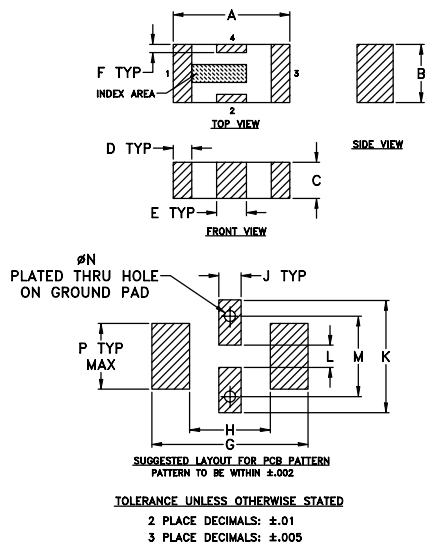
*Passband rating, derate linearly to 3.5W at 100°C ambient.

Pin Connections

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

**RF IN & RF OUT can be interchanged

Outline Drawing



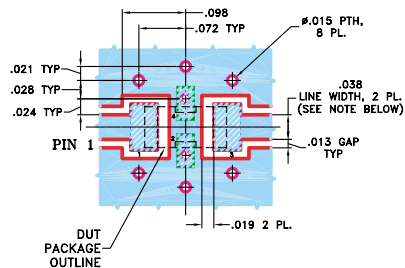
Outline Dimensions (inch)

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

Applications

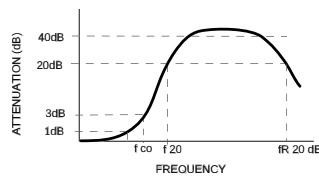
- harmonic rejection
- VHF/UHF transmitters/receivers
- RF suppression for DC lines on PCB
- anti-aliasing for A/D converter

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

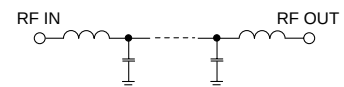
MODEL NO.	PASSBAND (MHz) (loss < 1 dB) Max.	fco, MHz Nom. (loss 3 dB) Typ.	STOP BAND (MHz) (loss, dB)			VSWR (:1)		NO. OF SECTIONS
			f 20 Min.	40 Typ.	fr 20 Typ.	Stopband Typ.	Passband Typ.	
LFCN-120	DC-120	195	270	285-1850	4750	20	1.2	7

1. For Applications requiring DC voltage to be applied to the Input or output, use LFCN-120D (DC Resistance to ground is 100 Mohms min.)

typical frequency response

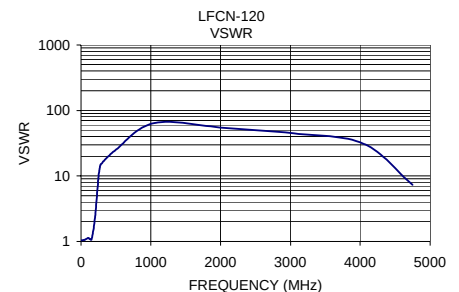
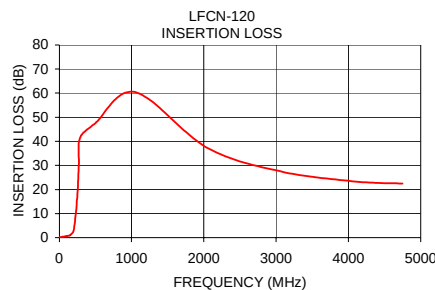


schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	0.13	1.04
51.00	0.38	1.06
100.00	0.66	1.13
120.00	0.81	1.09
150.00	1.13	1.07
200.00	3.28	2.35
250.00	17.85	9.96
270.00	30.80	13.60
285.00	41.37	15.13
500.00	47.59	25.19
1050.00	60.41	64.35
2050.00	37.25	54.29
3050.00	27.60	44.55
4050.00	23.48	31.03
4750.00	22.45	7.28



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