

Ceramic Low Pass Filter

DC to 1750 MHz

NEW!
LFCN-1750



BLUE CELL™

CASE STYLE: FV1206
PRICE: \$1.99 ea. QTY (10-49)

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	10W* max. at 25°C
DC Current Input to Output	0.5A max. at 25°C

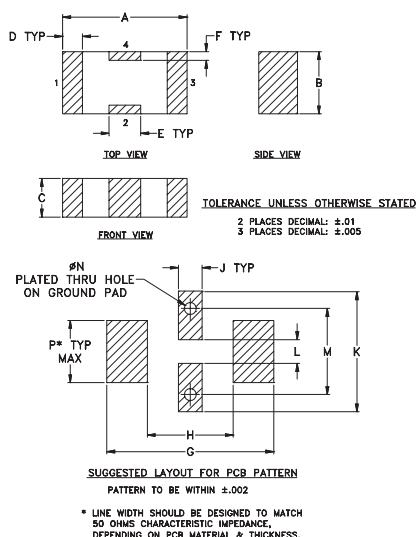
*derate linearly to 3.5W at 100°C ambient.

Pin Connections

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

** RF IN & RF OUT can be interchanged

Outline Drawing

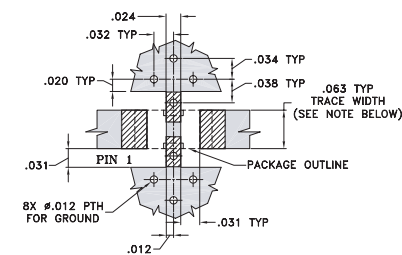


Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H
.126	.063	.039	.020	.032	.009	.169	.087
3.20	1.60	0.99	0.51	0.81	0.23	4.29	2.21
J	K	L	M	N	P	wt.	
.024	.122	.024	.087	.012	.071	grams	
0.61	3.10	0.61	2.21	0.30	1.80	.020	

Demo Board MCL P/N: TB-237

Suggested PCB Layout (PL-123)



Features

- excellent power handling, 10W
- small size
- 7 sections
- temperature stable
- patent pending

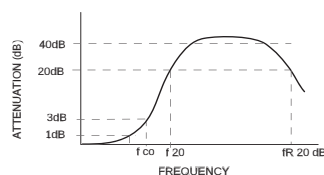
Applications

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

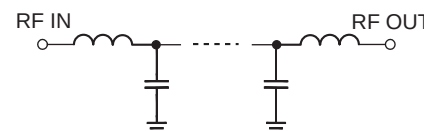
Low Pass Filter Electrical Specifications (T_{AMB}=25°C)

MODEL NO.	PASSBAND (MHz) (loss < 1 dB) Min.	f _{co} , MHz Nom. (loss 3 dB) Typ.	STOP BAND (MHz) (loss, dB)			VSWR (:1)		NO. OF SECTIONS
			f 20 Min.	40 Typ.	f _r 20 Typ.	Stopband Typ.	Passband Typ.	
LFCN-1750	DC-1750	2025	2325	2700-4950	6900	20	1.2	7

typical frequency response



schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
100.00	0.04	1.02
1000.00	0.27	1.15
1650.00	0.64	1.06
2000.00	3.27	3.21
2325.00	35.11	19.11
3000.00	42.08	19.32
4000.00	44.65	579.06
4950.00	40.02	19.76
6900.00	21.58	193.02
9000.00	11.18	78.97

