

Ceramic Low Pass Filter

DC to 1700 MHz

NEW!

LFCN-1700



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

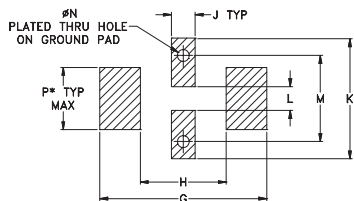
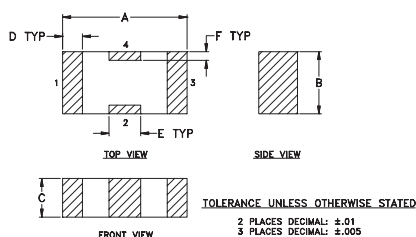
RF IN 1**

RF OUT 3**

GROUND 2,4

** RF IN & RF OUT can be interchanged

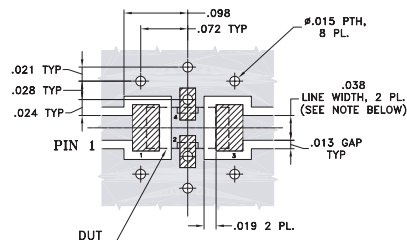
Outline Drawing



Outline Dimensions (inch)

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-270 Suggested PCB Layout (PL-137)



Features

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

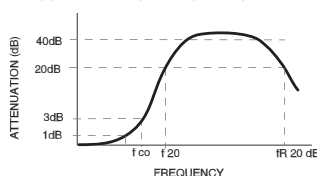
Applications

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

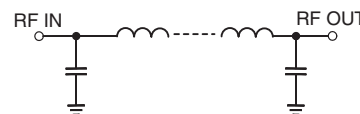
Low Pass Filter Electrical Specifications (T_{AMB}=25°C)

MODEL NO.	PASSBAND (MHz) (loss < 1 dB) Max.	fco, MHz Nom. (loss 3 dB) Typ.	STOP BAND (MHz) (loss, dB)			VSWR (:1)		NO. OF SECTIONS
			f 20 Min.	30 Typ.	fr 20 Typ.	Stopband Typ.	Passband Typ.	
LFCN-1700	DC-1700	2025	2300	2500-6000	6900	20	1.2	7

typical frequency response

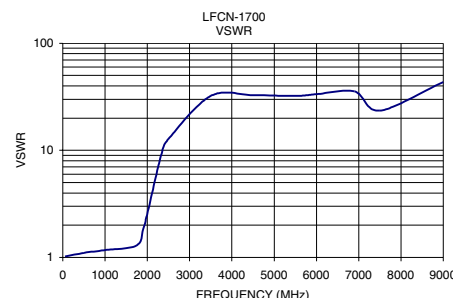
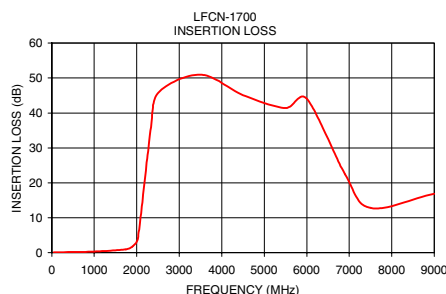


schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50.00	0.13	1.02
500.00	0.20	1.10
1000.00	0.36	1.17
1740.00	0.97	1.29
1900.00	1.85	1.83
2025.00	4.02	2.84
2325.00	35.00	8.99
2500.00	45.69	12.80
3500.00	50.96	32.18
4500.00	45.13	32.79
5500.00	41.41	32.18
6000.00	44.06	33.42
6900.00	22.52	35.46
7500.00	12.82	23.49
9000.00	16.93	43.44



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