Ceramic Low Pass Filter

50Ω

DC⁽¹⁾ to 2000 MHz

Maximum Ratings

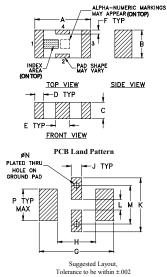
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	9W max. at 25°C

* Passband rating, derate linearly to 4W at 100°C ambient. Permanent damage may occur if any of these limits are exceeded.

Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

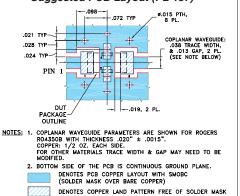
Outline Drawing



Outline Dimensions (inch)

В	С	D	E	F	G	
.063	.037	.020	.032	.009	.169	
1.60	0.94	0.51	0.81	0.23	4.29	
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
	.063 1.60 J .024	.063 .037 1.60 0.94 J K .024 .122	.063 .037 .020 1.60 0.94 0.51 J K L .024 .122 .024	.063 .037 .020 .032 1.60 0.94 0.51 0.81 J K L M .024 .122 .024 .087	.063 .037 .020 .032 .009 1.60 0.94 0.51 0.81 0.23 J K L M N .024 .122 .024 .087 .012	.063 .037 .020 .032 .009 .169 1.60 0.94 0.51 0.81 0.23 4.29 J K L M N P .024 .122 .024 .087 .012 .071

Demo Board MCL P/N: TB-270 Suggested PCB Layout (PL-137)



Features

- excellent power handling, 9W
- small size
- 5 sections
- temperature stable
- LTCC construction

Applications

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

LFCN-2000+ LFCN-2000



CASE STYLE: FV1206 PRICE: \$1.99 ea. QTY (20)

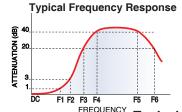
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

> Available Tape and Reel at no extra cost Reel Size Devices/Reel 7" 20, 50, 100, 200, 500, 1000, 3000

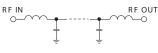
Electrical Specifications^(1,2) at 25°C

Pa	rameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-2000	_	_	1.5	dB
Pass Band	Freq. Cut-Off	F2	2275	—	3.0	—	dB
	VSWR	DC-F1	DC-2000		1.3	—	:1
		F3	3000	20		—	dB
Stop Band	Rejection Loss	F4-F5	3100-3500	—	30	—	dB
Stop Ballu		F6	4600	—	20	—	dB
	VSWR	F3-F6	3000-4650	—	20	_	:1

In Application where DC voltage is present at either input or output ports, coupling capacitors are required. Alternatively, if DC pass IN-OUT is required, Mini-Circuits' "D" suffix version of this model will support DC IN-OUT, and provide>100 MOhm isolation to ground.
 Measured on Mini-Circuits Characterization Test Board TB-270.



Electrical Schematic



LFCN-2000

VSWR

2000

3000

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
10.00	0.14	1.04
258.75	0.30	1.19
507.50	0.35	1.23
756.25	0.51	1.28
1005.00	0.49	1.21
1253.75	0.56	1.18
1502.50	0.60	1.14
1751.25	0.74	1.13
2250.00	4.73	5.33
2500.00	11.34	16.41
2750.00	19.65	43.44
3000.00	32.99	102.19
4244.00	20.09	217.15
4422.00	19.52	66.82
4600.00	20.32	46.96

1000

100

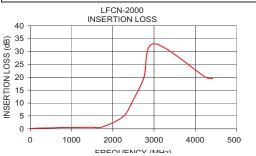
10

1

0

1000

VSWR



Notes
A Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document are subject to Mini-Circuit's standard limited warranty and terms and conditions (collective), "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and meredies thereunder, please visit Mini-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp



500

4000

Mini-Circuits