Ceramic Low Pass Filter

50Ω

DC⁽¹⁾ to 2400 MHz

Maximum Ratings

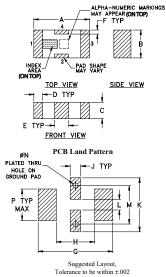
Operating Temperature	-55°C to 100°C		
Storage Temperature	-55°C to 100°C		
RF Power Input*	9W max. at 25°C		

* 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

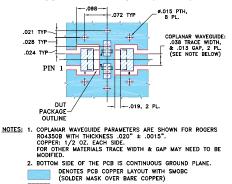
Outline Drawing



Outline Dimensions (inch)

					C 11011		
Α	В	С	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	
н	J	К	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)



DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

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

Applications

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



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

LFCN-2400+

LFCN-2400

+RoHS Compliant

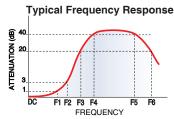
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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

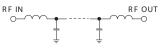
Electrical Specifications^(1,2) at 25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit	
	Insertion Loss	DC-F1	DC-2400	_	_	1.5	dB	
Pass Band	Freq. Cut-Off	F2	2800	—	3.0	—	dB	
	VSWR	DC-F1	DC-2400		1.2	—	:1	
Stop Band		F3	3600	20		—	dB	
	Rejection Loss	F4-F5	3700-4000	—	30	—	dB	
		F6	5000	—	20	—	dB	
	VSWR	F3-F6	3600-5000	—	20	_	:1	

(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. (2) Measured on Mini-Circuits Characterization Test Board TB-270.







VSWR

2000

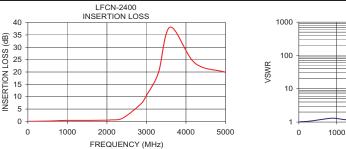
FREQUENCY (MHz)

3000

4000

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
10.00	0.03	1.01	
308.75	0.03	1.07	
607.50	0.10	1.20	
906.25	0.39	1.31	
1205.00	0.41	1.19	
1503.75	0.41	1.17	
1802.50	0.46	1.13	
2101.25	0.62	1.25	
2400.00	1.34	1.97	
2850.00	6.94	8.51	
3000.00	10.53	14.15	
3300.00	19.58	37.77	
3600.00	38.18	115.81	
4222.22	23.66	78.97	
5000.00	19.90	34.75	
LFCN-2400		LFCN-2400	



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-Circuits standard limited warranty and terms and conditions (collectively, "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 remedies thereunder, please wisit Mini-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

REV. L M125148 LFCN-2400 ED-9913/5 AD/CP/AM 130904

5000

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