Ceramic Low Pass Filter

50Ω

DC⁽¹⁾ to 225 MHz

Maximum Ratings

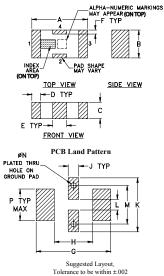
Operating Temperature	-55°C to 100°C			
Storage Temperature	-55°C to 100°C			
RF Power Input*	8.5W max. at 25°C			
* Deschand rating derate linearly to 2 EW at 100%C ambient				

Passband rating, derate linearly to 3.5W 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

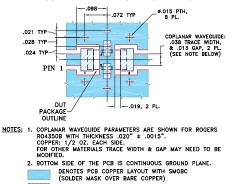
Outline Drawing



Outline Dimensions (inch)

						, mm 🌶	
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	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)



DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

INSERTION

30

20 10

> 0 0

1100

Features

- excellent power handling, 8.5W
- small size
- 7 sections
- temperature stable
- LTCC construction
- protected by U.S. Patent 6,943,646

Applications

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

LFCN-225+ **LFCN-225**



CASE STYLE: EV1206 PRICE: \$2.99 ea. QTY (20)

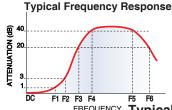
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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

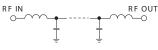
iverter		
Electrical	Specifications ^(1,2)	at 25°C

Pa	rameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-225	_	_	1.2	dB
Pass Band	Freq. Cut-Off	F2	350	—	3.0	—	dB
	VSWR	DC-F1	DC-225	-	1.2	—	:1
		F3	460	20	-	—	dB
Oton Dand	Rejection Loss	F4-F5	510-2500	—	40	—	dB
Stop Band		F6	5500	—	20	—	dB
	VSWR	F3-F6	460-5500	_	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

Typical Performance Data at 25°C FREQUENCY Frequency Insertion Loss

(MHz)	(dB)	(:1)
1.00	0.09	1.02
100.00	0.36	1.08
225.00	0.69	1.05
240.00	0.76	1.06
425.00	14.11	7.80
450.00	27.79	12.52
460.00	34.45	14.03
495.00	38.38	17.93
510.00	41.66	19.32
610.00	38.03	27.59
900.00	51.04	49.64
1400.00	55.18	72.39
2500.00	51.22	72.39
3220.00	39.48	59.91
5500.00	24.20	28.03
REPORTION LOSS		LFCN-225 VSWR

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 mendes thereunder, please visit Mini-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

1100

2200

FREQUENCY (MHz)

3300

4400

10

0

REV. G M125148 LECN-225 EDR-6588/ RVN/AD/CP/AM 130828

5500

Mini-Circuits

FREQUENCY (MHz)

2200

3300

4400

5500