Ceramic Low Pass Filter

500

GROUND

DC⁽¹⁾ to 225 MHz

1 3

2,4

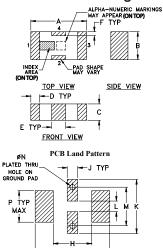
Maximum Ratings

Operating Temperature	-55°C to 100°C			
Storage Temperature	-55°C to 100°C			
RF Power Input*	8.5W max. at 25°C			
Max. DC Voltage at pins 1&3	25 VDC			
DC Current Input to Output	0.5A max. at 25°C			
* Derate linearly to 3.5W at 100°C ambient.				

Permanent damage may occur if any of these limits are exceeded. Die Compositions

Pin Connections	
RF IN	
RF OUT	

Outline Drawing

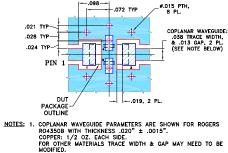


Suggested Layout Tolerance to be within ±.002

Outline Dimensions (inch)

	G	F	E	D	C	B	A
	.169	.009	.032	.020	.037	.063	.126
	4.29	0.23		0.51	0.94	1.60	3.20
wt	P	N	M	L	K	J	H
grams	.071	.012	.087	.024	.122	.024	.087
.020	1.80	0.30	2.21	0.61	3.10	0.61	2.21

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



2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

2200

80

0

0

1100

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

FREQUENCY (MHz)

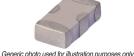
Features

- 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





CASE STYLE: FV1206

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



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

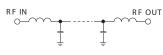
Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-225	_	_	1.0	dB
Pass Band	Freq. Cut-Off	F2	350	_	3.0	_	dB
	VSWR	DC-F1	DC-225	_	1.2	_	:1
		F3	485	20	_	—	dB
Oten Dend	Rejection Loss	F4-F5	510-2500	_	40	_	dB
Stop Band		F6	5500	_	20	_	dB
	VSWR	F3-F6	485-5500	_	20	_	:1

(1) DC Resistance to ground is 100 Mohms min.

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

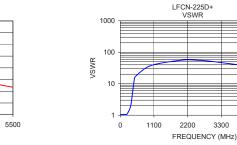
Typical Frequency Response 9 40 ATTENUATION 20 3 DC F1 F2 F3 F4 E5 F6 FREQUENCY

Electrical Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)			
1.00	0.11	1.03			
100.00	0.33	1.06			
200.00	0.58	1.06			
225.00	0.66	1.10			
300.00	1.23	1.51			
350.00	2.30	2.20			
460.00	33.86	14.15			
510.00	46.81	17.57			
1000.00	37.82	37.77			
2000.00	69.21	56.04			
2500.00	58.78	56.04			
3000.00	48.67	51.10			
4000.00	32.00	38.61			
5000.00	26.00	32.18			
5500.00	23.45	32.79			
LFCN-225D+		LFCN-225D+			
INSERTION LOSS	1000	VSWR			



REV. M M151107 LFCN-225D+ EDR-6588/1 RVN/AD/AM 150817

5500

4400

Mini-Circuits

3300

4400

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