Ceramic Low Pass Filter

50O

DC to 2400 MHz

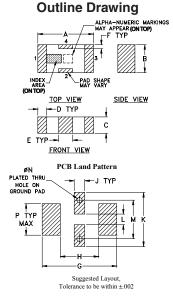
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	9W max. at 25°C
Max. DC Voltage at pins 1&3	25 VDC
DC Current Input to Output	0.5A max. at 25°C
* D _ I _ I _ / /// / / 0000 _ I _ /	

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

Pin Connections

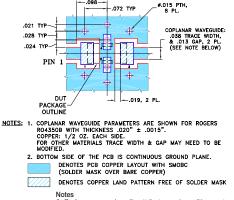
RF IN	1
RF OUT	3
GROUND	2,4



Outline 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	М	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)



Features

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

Applications

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





Generic photo used for illustration purposes only 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-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. DC Resistance to ground is 100 Mohms min.

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

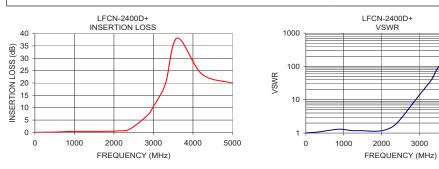
Typical Frequency Response 9 40 ATTENUATION 20 3 1 DC F1 F2 F3 F4 F5 F6 FREQUENCY

Electrical Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
10.00	0.03	1.01
308.75 607.50	0.10 0.20	1.07 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



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 Nlin-Circuit's applicable established test performance criteria and measurement instructions. C. The parts covered by this specification document are subject to Nlini-Circuit 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 visit Mini-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

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