Ceramic Low Pass Filter

50Ω

DC to 800 MHz

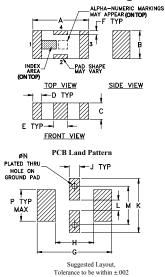
Maximum Ratings

5	
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	1A max. at 25°C
* Derate linearly to 4W at 100°C ambient Permanent damage may occur if any of thes	

Din Compositions

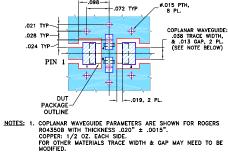
Pin Connections	
RF IN	1
RF OUT	3
GROUND	2,4

Outline Drawing



Outline Dimensions (inch) С D Е F А В G 126 .063 .037 .020 .032 009 169 3.20 1.60 0.94 0.51 0.81 0.23 4.29 М Р Н к L Ν wt .087 2.21 .024 0.61 .122 3.10 .024 .087 .012 .071 grams 0.61 0.30 2.21 1.80 .020

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

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

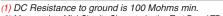
+RoHS Compliant

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

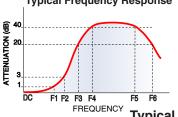


Electrical Specifications^{1,2} at 25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
Pass Band	Insertion Loss	DC-F1	DC-800	_	_	1.3	dB
	Freq. Cut-Off	F2	990	—	3.0	—	dB
	VSWR	DC-F1	DC-800	—	1.2	—	:1
Stop Band		F3	1400	20	_	_	dB
	Rejection Loss	F4-F5	1500-2000	_	30	_	dB
		F6	4500	_	20	_	dB
	VSWR	F3-F6	1400-4500	_	20	_	:1



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



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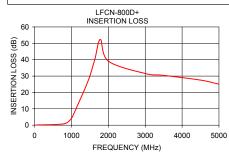
Electrical Schematic

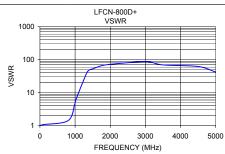


VOWD

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
10.00	0.06	1.01	
100.00	0.14	1.07	
800.00	0.85	1.41	
990.00	3.87	4.47	
1030.00	5.38	6.39	
1330.00	20.50	39.49	
1400.00	24.29	48.26	
1500.00	30.05	52.65	
1635.00	40.35	59.91	
1785.00	52.35	66.82	
2000.00	39.14	72.39	
3000.00	31.57	86.86	
3500.00	30.42	69.49	
4500.00	27.52	62.05	
5000.00	25.04	42.38	





REV. B M151107 LFCN-800D+ ED-9913/1 AD/RS/CP/AM 150817

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