Ceramic Low Pass Filter

500

DC⁽¹⁾ to 160 MHz

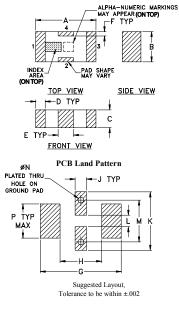
Maximum Ratings

Operating Temperature	-55°C to 100°C					
Storage Temperature	-55°C to 100°C					
RF Power Input* 8W max. at 25						
* Passband rating, derate linearly to 3W at 100°C ambient.						

Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

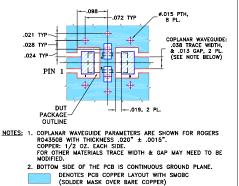
Outline Drawing



Outline Dimensions (inch)

	G	F	E	D	С	В	Α
	.169	.009	.032	.020	.037	.063	.126
	4.29	0.23	0.81	0.51	0.94	1.60	3.20
wt	P	N	M	L	K	J	н
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)



DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

- excellent power handling, 8W
- small size
- 7 sections
- temperature stable
- · hermetically sealed
- LTCC construction
- protected by U.S. Patent 6,943,646

Applications

- harmonic rejection
- VHF/UHF transmitters/receivers

LFCN-160+



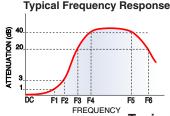
Generic photo used for illustration purposes only CASE STYLE: FV1206

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



lab use Electrical Specifications ^(1,2) at 25°C									
Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit		
	Insertion Loss	DC-F1	DC-160	_	_	1.0	dB		
Pass Band	Freq. Cut-Off	F2	230	—	3.0	—	dB		
	VSWR	DC-F1	DC-160	—	1.2	—	:1		
Stop Band		F3-F4	330-480	20	_	—	dB		
	Rejection Loss	F4-F5	480-2700	—	35	—	dB		
		F5-F6	2700-6100	—	20	_	dB		
	VSWR	F3-F6	330-6100	—	17	_	:1		
(1) In Application	(1) In Application where DC voltage is present at either input or output parts, so while conseitars are required								

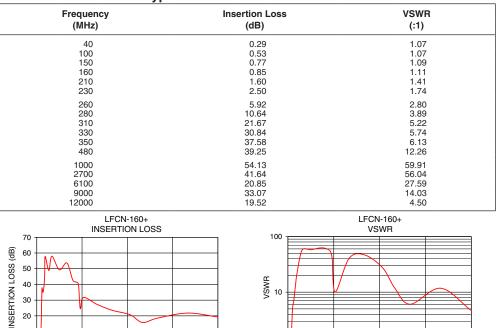
(1) In Application where DC voltage is present at either input or output ports, coupling capacitors are required. (2) Measured on Mini-Circuits Characterization Test Board TB-270.







Typical Performance Data at 25°C



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

6000

FREQUENCY (MHz)

9000

12000

0

3000

6000

FREQUENCY (MHz)

9000

REV. E M151107 LFCN-160+ EDR-7071/3 RAV 150817 Page 1 of 1

12000

Mini-Circuits

20

10 0

0

3000

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