# Ceramic Low Pass Filter

# **50**0

# DC<sup>(1)</sup> to 160 MHz

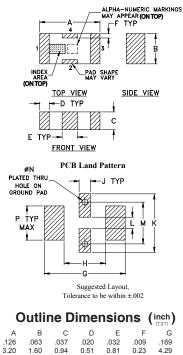
### **Maximum Ratings**

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

# **Pin Connections**

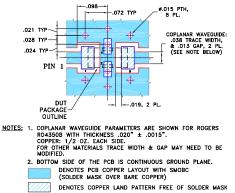
RF IN	1
RF OUT	3
GROUND	2,4

# **Outline Drawing**



Н wt 087 024 122 024 087 012 .071 grams 2.21 3.10 0.61 2.21 0.30 0.61 1.80 .020

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



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 trical Spacifications(1.2) at 25°C





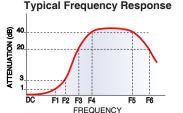
CASE STYLE: FV1206

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



• lab use Electrical Specifications at 25 °C									
Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit		
Pass Band	Insertion Loss	DC-F1	DC-160	—	—	1.0	dB		
	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 where DC voltage is present at either input or output ports, coupling capacitors are required									

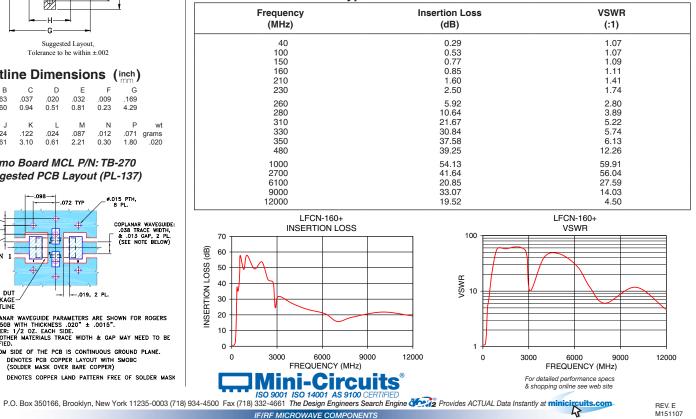
(1) In Application where DC voltage is present at either input or output ports, coupling capacitors are required. (2) Measured on Mini-Circuits Characterization Test Board TB-270.



# **Electrical Schematic**



## Typical Performance Data at 25°C



Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specification sheet are intended to be excluded and do not form a part of this specification sheet are subject to mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to the excluded and to the excluded to the replication sheet are subject to the subject to the replication sheet are subject to the exclusive rights and remedies thereunder, please visit Mini-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp.

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