Ceramic Low Pass Filter

500

DC⁽¹⁾ to 3900 MHz

Maximum Ratings

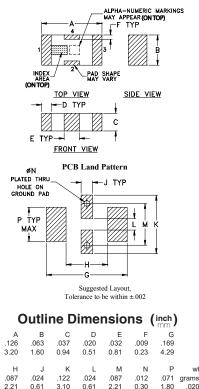
Operating Temperature	-55°C to 100°C				
Storage Temperature	-55°C to 100°C				
RF Power Input*	8W max. at 25°C				
* Passband rating, derate linearly to 3W at 100°C ambient.					

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

Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

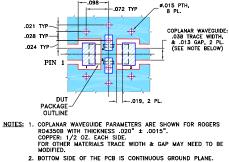
Outline Drawing



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

wt





 MOUDIFIED.

 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, 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

lab use

LFCN-3800+



Generic photo used for illustration purposes only CASE STYLE: FV1206

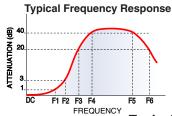
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications



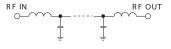
Electrical Specifications^(1,2) at 25°C

Pa	rameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
Pass Band	Insertion Loss	DC-F1	DC-3900	_	_	1.5	dB
	Freq. Cut-Off	F2	4850	—	3.0	_	dB
	VSWR	DC-F1	DC-3900	—	1.3	_	:1
Stop Band		F3	6000	20	—	_	dB
	Rejection Loss	F4-F5	5700-8300	—	30	_	dB
		F5-F6	8300-13000	—	20	_	dB
	VSWR	F3-F6	6000-13000	_	17	_	:1

(1) In Applications where DC isolation to ground is required, coupling capacitors are recommended to avoid DC leakage. Alternatively, if DC pass IN-OUT is required, Mini-Circuits' "D" suffix version of this model will support DC IN-OUT, and provide>100 MOhm isolation to ground. (2) Measured on Mini-Circuits Characterization Test Board TB-270.



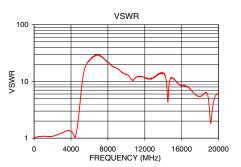
Electrical Schematic



Typical Performance Data at 25°C

,		
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
40	0.06	1.03
1550	0.27	1.07
3060	0.48	1.25
3900	0.66	1.34
4510	0.95	1.11
4760	1.93	1.95
4850	2.76	2.60
4930	3.84	3.48
5120	7.65	7.05
5380	15.30	14.15
5700	30.21	20.22
6000	33.71	23.49
8300	29.24	19.76
13000	18.04	12.09
20000	14.19	6.35





Notes
 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 remedies thereunder, please visit Mini-Circuits website at www.minicircuits.com/MCLStore/terms.jsp

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