Ceramic Low Pass Filter

50Ω

DC⁽¹⁾ to 5500 MHz

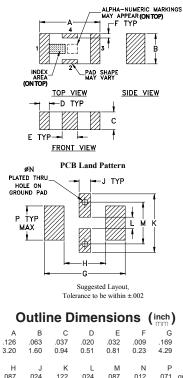
Maximum Ratings

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

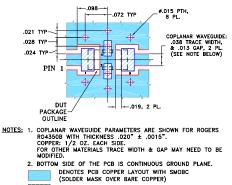
RF IN	1
RF OUT	3
GROUND	2,4

Outline Drawing



.071 grams 2.21 3.10 2.21 0.61 0.61 0.30 1.80 .020

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



DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Notes

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

Electrical Spacifications(1.2) at 25°C



LFCN-5500+

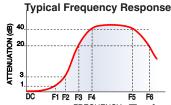
Generic photo used for illustration purposes only CASE STYLE: FV1206

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

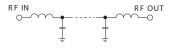


Electrical Specifications ^(1,2) at 25°C									
Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit		
Pass Band	Insertion Loss	DC-F1	DC-5500	—	—	2.0	dB		
	Freq. Cut-Off	F2	6200	_	3.0	_	dB		
	VSWR	DC-F1	DC-5500	—	1.3	_	:1		
Stop Band		F3	7200	20	—	—	dB		
	Rejection Loss	F4-F5	6770-9500	—	30	_	dB		
		F5-F6	9500-12100	_	20	_	dB		
	VSWR	F3-F6	7200-12100	—	17	_	:1		

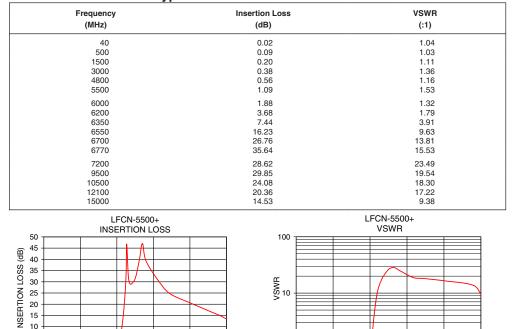
(1) In Application where DC voltage is present at either input or output ports, coupling capacitors are required. Alternatively, if DC pass IN-OUT is required, Mini-Circuits' "D" suffix version of this model will support DC IN-OUT, and provide>100 MOhm isolation to ground. (2) Measured on Mini-Circuits Characterization Test Board TB-270.



Electrical Schematic



FREQUENCY 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 Nini-Circuit's applicable established test performance criteria and measurement instructions. G. The parts covered by this specification document are subject to Mini-Circuit shandard 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

FREQUENCY (MHz)

9000

12000

15000

0

3000

6000

9000

FREQUENCY (MHz)

12000

6000

10 5 0

0

3000

REV. F M173979 LFCN-5500+ EDR-8033/1U RAV 190621 Page 1 of 1

⊒Mini-Circuits

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