Ceramic Low Pass Filter

50Ω

DC⁽¹⁾ to 6400 MHz

Maximum Ratings

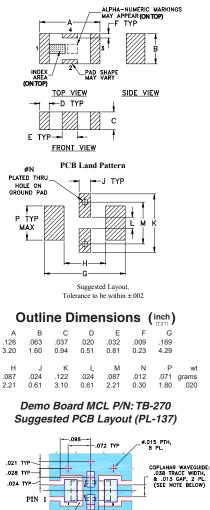
Operating Temperature	-55°C to 100°C				
Storage Temperature	-55°C to 100°C				
RF Power Input*	8W max. at 25°C				
* Passband rating, derate linearly to 3W at 100°C ambient.					

Permanent damage may occur if any of these limits are exceeded

Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

Outline Drawing



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

LFCN-6400+



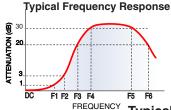
Generic photo used for illustration purposes only CASE STYLE: FV1206

+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							
Pa	rameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-6400	_	_	2.0	dB
Pass Band	Freq. Cut-Off	F2	7200	—	3.0	_	dB
	VSWR	DC-F1	DC-6400	_	1.2	_	:1
Stop Band		F4	8300	20	—	—	dB
	Rejection Loss	F3-F5	7770-10200	—	30	—	dB
		F5-F6	10200-12500	—	20	_	dB
	VSWR	F4-F6	8300-12500	—	17	_	:1

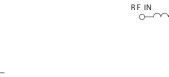
(1) In Applications where DC isolation to ground is required, coupling capacitors are recommended to avoid DC leakage. Alternatively, if DC pass IN-OUT is required, Mini-Circuits "D" suffix version of this model will support DC IN-OUT, and provide>100 MOhm isolation to ground. (2) Measured on Mini-Circuits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





RF OUT

-0



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
40	0.02	1.04
500	0.07	1.02
2000	0.20	1.14
4000	0.40	1.36
5500	0.55	1.09
6400	1.25	1.53
7000	1.76	1.10
7200	3.12	1.81
7350	6.62	3.90
7500	12.86	7.76
7680	24.39	12.35
7770	35.48	14.62
8300	28.71	22.29
10200	30.17	16.89
11000	25.43	17.75
12500	19.72	15.39
15000	13.80	8.90
LFCN-6400+ INSERTION LOSS	100	LFCN-6400+ VSWR
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3000

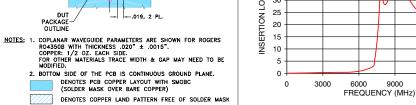
6000

9000

FREQUENCY (MHz)

15000

12000



wt

.020

REV. F M173979 LFCN-6400+ EDR-8033/3U RAV 190426 Page 1 of 1

15000

12000



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. C. The parts covered by this specification document are subject to Mini-Circuit's 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-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

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