Ceramic Low Pass Filter

50Ω

DC⁽¹⁾ to 8400 MHz

Maximum Ratings

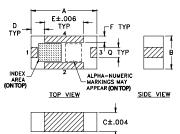
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	8W max. at 25°C
* Passband rating, derate linearly to Permanent damage may occur if any of	

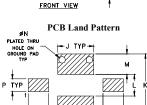
Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

Product Marking: AG

Outline Drawing



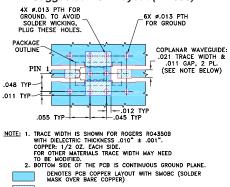


⊢R· Suggested Layout, Tolerance to be within ±.002

Outline Dimensions (inch)

		•						
J	н	G	F	E	D	С	В	Α
.069	.104	.182	.012	.075	.026	.037	.063	.126
1.75	2.64	4.62	0.30	1.91	0.66	0.94	1.60	3.20
wt		в	Q	Р	N	м	L	к
grams		.039	.020	.024	.013	.039	.041	.119
.020		0.99	0.51	0.61	0.33	0.99	1.04	3.02

Demo Board MCL P/N: TB-618+ Suggested PCB Layout (PL-363)



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

. ----. (1.0)

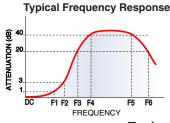
LFCN-8400+

+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-8400	_	_	1.6	dB
Pass Band	Freq. Cut-Off	F2	9100	—	3.0	_	dB
	VSWR	DC-F1	DC-8400	—	1.6	_	:1
	Rejection Loss	F3	10300	20	—	—	dB
Stop Band	Rejection Loss	F4-F5	10300-15000	—	30	_	dB
	VSWR	F3-F6	10300-15000	_	17	_	:1

(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-618+.

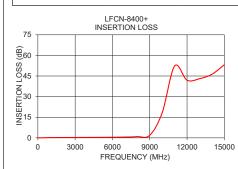


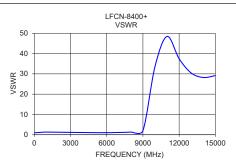
Electrical Schematic



Typical Performance Data at 25°C

Frequency	Insertion Loss	VSWR
(MHz)	(dB)	(:1)
10	0.07	1.01
50	0.03	1.01
100	0.03	1.03
500	0.11	1.17
1000	0.21	1.34
5200	0.38	1.03
7000	0.58	1.15
8000	0.89	1.34
9000	1.89	2.08
10000	18.30	33.66
11000	52.31	48.44
12000	41.95	37.44
13000	43.04	30.42
14000	46.26	28.21
15000	53.19	29.16





REV. C M157686 LFCN-8400+ ED-14336 AD/CP/AM 160823 Page 1 of 1

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 **Mini-Circuits**

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