Ceramic Low Pass Filter

50Ω

DC⁽¹⁾ to 8400 MHz

Maximum Ratings

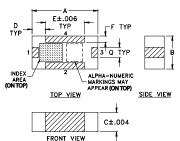
Operating Temperature	-55°C to 100°C				
Storage Temperature	-55°C to 100°C				
RF Power Input*	8W max. at 25°C				
* Passband rating, derate linearly to 3W at 100°C ambient.					

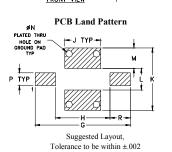
Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

Product Marking: AG

Outline Drawing

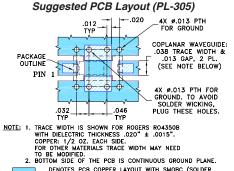




Outline Dimensions (inch)

	mm /	•							
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		R	Q	Р	Ν	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-518



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-8400+



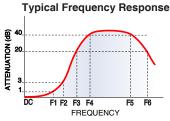
CASE STYLE: FV1206-4 PRICE: \$1.99 ea. QTY (20)

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

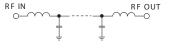


• lab use Electrical Specifications ^(1,2) at 25°C							
Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-8400	_	—	1.6	dB
Pass Band	Freq. Cut-Off	F2	9100	—	3.0	_	dB
	VSWR	DC-F1	DC-8400	—	1.6	_	:1
Stop Band	Rejection Loss	F3	10300	20		—	dB
		F4-F5	10300-15000	—	30	_	dB
	VSWR	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-518.

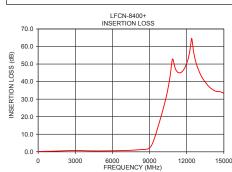


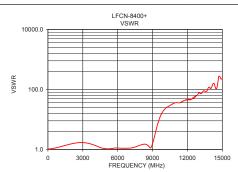
Electrical Schematic



Typical Performance Data at 25°C

Frequency	Insertion Loss	VSWR		
(MHz)	(dB)	(:1)		
10.00	0.14	1.02		
50.00	0.17	1.03		
100.00	0.18	1.03		
500.00	0.23	1.09		
1000.00	0.31	1.21		
5200.00	0.50	1.05		
7000.00	0.73	1.10		
8000.00	1.08	1.41		
9000.00	2.21	1.56		
10000.00	21.91	20.99		
11000.00	49.41	36.32		
12000.00	50.31	44.88		
13000.00	45.91	78.66		
14000.00	35.94	106.50		
15000.00	33.24	239.10		





REV. A M150278 LFCN-8400+ ED-14336 AD/CP/AM 150305 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**

www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com