Ceramic **Low Pass Filter**

50Ω

DC to 4400 MHz

Maximum Ratings

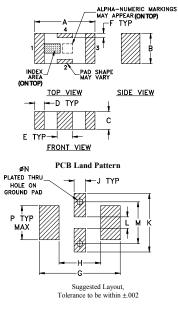
Operating Temperature	-55°C to 100°C			
Storage Temperature	-55°C to 100°C			
RF Power Input*	8W max. at 25°C			
Max. DC Voltage at pins 1 & 3	25 VDC			
DC Current Input to Output	0.5A max. at 25°C			
* Passhand rating derate linearly to 3W at 100°C ambient				

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

Pin Connections

RF IN	11
RF OUT	3
GROUND	2,4

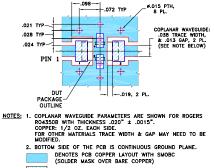
Outline Drawing



Outline Dimensions (inch)

						\ mm	/
A	В	С	D	E	F	G	
.126	.063	.037	.020	.032	.009	.169	
3.20	1.60	0.94	0.51	0.81	0.23	4.29	
н	J	K	L	M	N	P	wt
.087	.024	.122	.024	.087	.012	.071	grams
2.21	0.61	3.10	0.61	2.21	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 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 menetices thereunder, plase visit Mini-Circuits website at www.minicruits.com/NCLStore/terms.jsp

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





CASE STYLE: FV1206

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



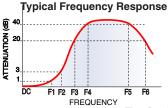
• lab use Electrical Specifications ^{1,2} at 25°C							
Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-4400	_	_	1	dB
Pass Band	Freq. Cut-Off	F2	5290	_	3.0	_	dB
	VSWR	DC-F1	DC-4400	_	1.2	_	:1
Stop Band		F3	6700	20	—	_	dB
	Rejection Loss	F4-F5	6280-9800	_	30	_	dB
		F5-F6	9800-13000	_	20	_	dB
	VSWR	F3-F6	6700-13000	_	17	_	:1

 VSWR
 F3-F6

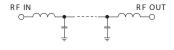
 1. DC Resistance to ground is 100 Mohms min.

2. Measured on Mini-Circuits Characterization Test Board TB-270.

2. Measured on Mini-Circuits Characterization test Board TB-27



Electrical Schematic

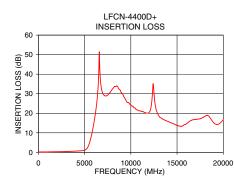


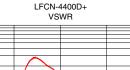
Typical Performance Data at 25°C

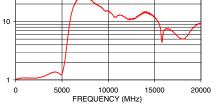
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	
50	0.04	1.03	
320	0.12	1.06	
1340	0.24	1.08	
3740	0.57	1.33	
4400	0.75	1.39	
5170	1.98	1.88	
5290	2.99	2.62	
5580	7.66	6.63	
5860	14.61	13.09	
6280	31.47	21.20	
6700	31.52	26.33	
7400	28.90	26.33	
9800	24.24	14.26	
13000	19.94	12.80	
20000	17.61	11.53	

100

VSWR







Mini-Circuits°

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

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