Ceramic Low Pass Filter

50Ω

DC⁽¹⁾ to 1200 MHz

Maximum Ratings

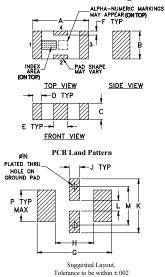
RF Power Input*	10W max. at 25°C
Storage Temperature	-55°C to 100°C
Operating Temperature	-55°C to 100°C

* Passband ratiing, derate linearly to 3.5W 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

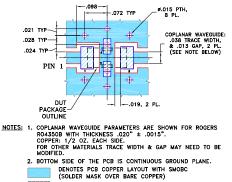
Outline Drawing



Outline Dimensions (inch)

						, mm 🌶	
Α	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	Р	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

NON-CATALOG

LFCN-1200



Generic photo used for illustration purposes only CASE STYLE: FV1206

Featuresexcellent power handling, 10W

- small size
- 7 sections
- temperature stableLTCC construction
- protected by U.S Patent 6,943,646

Applications

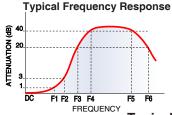
lab use

- harmonic rejection
- VHF/UHF transmitters/receivers

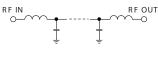
Electrical Specifications^(1,2) at 25°C

Pa	rameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-1200	_	_	1.0	dB
Pass Band	Freq. Cut-Off	F2	1530	_	3.0	—	dB
	VSWR	DC-F1	DC-1200	—	1.2	—	:1
		F3	1865	20	—	—	dB
Cton Dand	Rejection Loss	F4-F5	2000-5000	_	30	—	dB
Stop Band		F6	6200	—	20	—	dB
	VSWR	F3-F6	1865-6200	_	20	_	: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.
Measured on Mini-Circuits Characterization Test Board TB-270.

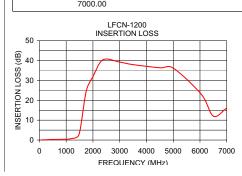


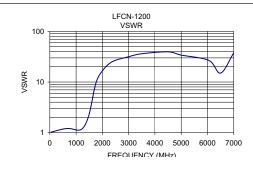
Electrical Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)		
50.00	0.04	1.02		
500.00	0.30	1.18		
750.00	0.34	1.20		
1200.00	0.73	1.16		
1480.00	2.79	2.15		
1750.00	24.69	9.43		
2000.00	31.88	16.56		
2375.00	40.40	25.19		
3000.00	39.23	31.60		
3500.00	37.97	36.20		
4500.00	36.37	39.49		
5000.00	36.23	34.07		
6050.00	22.99	26.74		
6500.00	12.01	15.00		
7000.00	16.10	37.77		





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 Min-Circuit's applicable established test performance criteria and measurement instructions. C. The parts covered by this specification document are subject to Min-Circuit's applicable established test performance criteria and measurement instructions. C. The parts covered by this specification document are subject to Min-Circuit's and ard 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 Min-Circuits' 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

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