Ceramic Low Pass Filter

50Ω

DC⁽¹⁾ to 530 MHz

Maximum Ratings

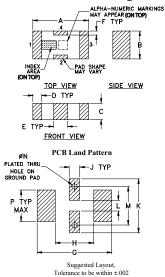
Operating Temperature	-55°C to 100°C		
Storage Temperature	-55°C to 100°C		
RF Power Input*	8.5W max. at 25°C		

* Passband rating, 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

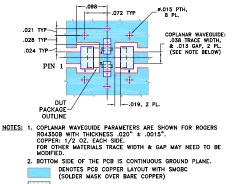
Outline Drawing



Outline Dimensions (inch)

	• • • • • •						
	G	F	E	D	С	В	А
	.169	.009	.032	.020	.037	.063	.126
	4.29	0.23	0.81	0.51	0.94	1.60	3.20
wt	Р	N	M	L	K	J	н
grams	.071	.012	.087	.024	.122	.024	.087
.020	1.80	0.30	2.21	0.61	3.10	0.61	2.21

Demo Board MCL P/N: TB-270 Suggested PCB Layout (PL-137)



DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

- excellent power handling, 8.5W
- small size
- 7 sections
- temperature stable
- LTCC construction
- protected by U.S. Patent 6,943,646

Applications

- harmonic rejection
- VHF/UHF transmitters/receivers





Generic photo used for illustration purposes only CASE STYLE: FV1206

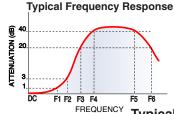
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications



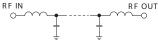
Electrical Specifications^(1,2) at 25°C

Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	DC-F1	DC-530	_	_	1.2	dB
Pass Band	Freq. Cut-Off	F2	700	—	3.0	—	dB
	VSWR	DC-F1	DC-530	—	1.2	—	:1
		F3	820	20	_	—	dB
Cton Dand	Rejection Loss	F4-F5	945-3000	—	40	—	dB
Stop Band		F6	6000	—	20	_	dB
	VSWR	F3-F6	820-6000	—	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.

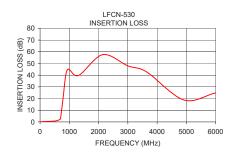


Electrical Schematic





Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	0.05	1.01
100.00	0.22	1.05
500.00	0.73	1.07
530.00	0.81	1.11
670.00	1.95	1.62
700.00	2.89	2.08
815.00	26.41	13.60
820.00	28.41	14.03
945.00	44.98	21.46
1315.00	39.77	36.97
2140.00	57.51	56.04
3000.00	47.94	51.10
3640.00	42.84	46.96
4910.00	18.81	12.61
6000.00	24.80	25.94



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 mendes thereunder, please visit Mini-Circuit's website at www.minicircuits.com/MCLStore/terms.jsp

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