Ceramic Low Pass Filter

5 MHz to 700 MHz

75Ω

Features

- Low loss, 0.8 dB
- Small size, 1210 (3.2mm x 2.5mm)
 Temperature stable
- LTCC construction
- LICC construction

Applications

- CATV/MDCA
- Harmonic Rejection
- Transmitters / Receivers

LFCV-700-75+



Generic photo used for illustration purposes only

CASE STYLE: JV1210C-2

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

> Available Tape and Reel at no extra cost Reel Size Devices/Reel 7" 20, 50, 100, 200, 500,1000, 3000

Electrical Specifications^{1,2} at 25°C

Para	ameter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Insertion Loss	F1-F2	5 - 700	_	—	1.0	dB
Pass Band	Freq. Cut-Off	F3	855	—	3.0	_	dB
	VSWR	F1-F2	5 - 700	_	1.4	_	:1
Stop Band	Rejection Loss	F4-F5	990-1950	30	_	_	dB
		F5-F6	1950-2150	25		_	dB

1. Measured on Mini-Circuits Characterization Test Board TB-801+.

2. This filter is not intended for use as a DC blocking circuit element. In application where DC voltage is present at either input or output ports blocking capacitors are required at the corresponding RF port.

Maximum Ratings

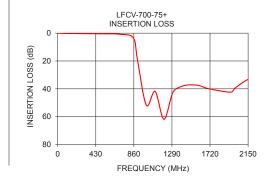
Operating Temperature	-55°C to +100°C
Storage Temperature*	-55°C to +100°C
RF Power Input**	1W at 25°C

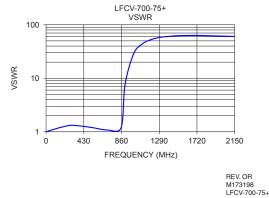
* 12 month max. **Passband rating, derate linearly to 0.5W at 100°C ambient

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

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
5.00	0.07	1.01
100.00	0.19	1.12
200.00	0.27	1.24
500.00	0.46	1.22
700.00	0.78	1.08
855.00	3.44	1.19
1000.00	51.74	29.28
1100.00	41.84	44.23
1200.00	61.85	52.95
1300.00	42.69	58.17
1400.00	38.22	60.59
1500.00	37.11	62.41
1600.00	37.70	62.79
1950.00	42.39	61.70
2000.00	39.55	61.40
2100.00	34.98	60.64
2150.00	33.21	60.65

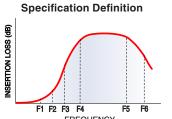




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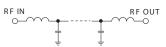
⊒Mini-Circuits°

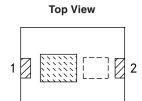
www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com



FREQUENCY

Functional Schematic





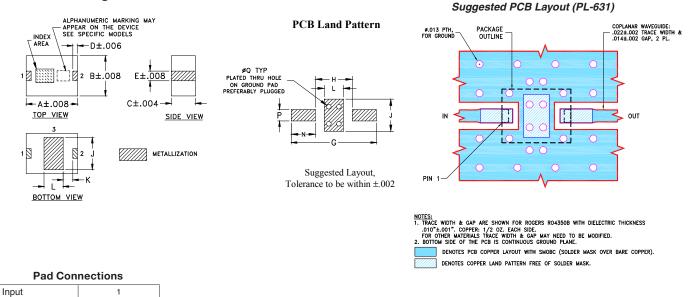
Pad Connections			
Input	1		
Output	2		
Ground	3		

Low Pass Filter

LFCV-700-75+

Demo Board MCL P/N: TB-801+

Outline Drawing



Outline Dimensions	(inch)
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Output Ground

A .126	B .098	C .059	D .012	E .024	G .205	H .087
3.2	2.5	1.5		0.61		2.2
J	K	L	Ν	Р	Q	wt
J .079	K .028	L .047		P 0.026		

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Additional 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 remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp