

Ceramic Low Pass Filter

50Ω DC⁽¹⁾ to 95 MHz

LFCN-95+ LFCN-95



CASE STYLE: FV1206
PRICE: \$3.99 ea. QTY (20)

Maximum Ratings

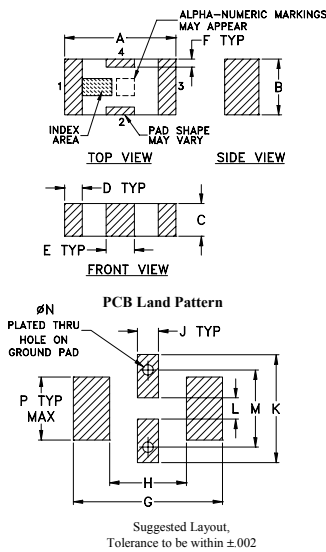
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	8.5W max. at 25°C

* 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	1
RF OUT	3
GROUND	2,4

Outline Drawing

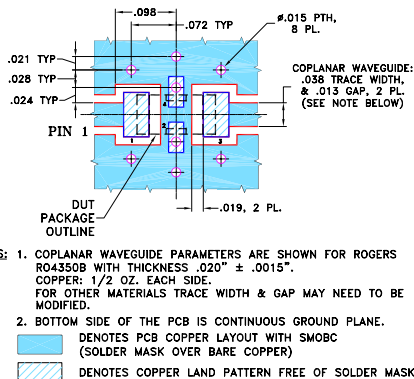


Outline Dimensions (inch)

A	B	C	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

H	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)



Features

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

Applications

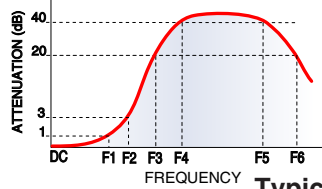
- harmonic rejection
- VHF/UHF transmitters/receivers

Electrical Specifications⁽¹⁾ at 25°C

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit	
Pass Band	Insertion Loss	DC-F1	DC-95	—	—	1.0	dB
	Freq. Cut-Off	F2	165	—	3.0	—	dB
	VSWR	DC-F1	DC-95	—	1.2	—	:1
Stop Band	Rejection Loss	F3	230	20	—	—	dB
		F4-F5	255-1600	—	40	—	dB
	VSWR	F6	4500	—	20	—	dB
		F3-F6	230-4500	—	20	—	:1

(1) Coupling capacitors at input and output are recommended for use in applications that require DC isolation of input to output port or either port to ground.

Typical Frequency Response

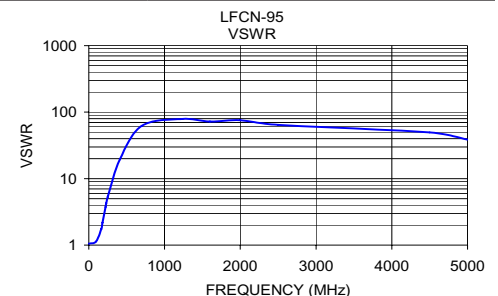
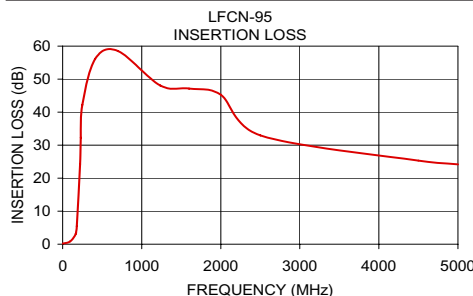


Electrical Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.00	0.21	1.05
95.00	0.83	1.13
165.00	3.13	1.74
180.00	5.49	2.18
220.00	24.23	3.74
230.00	32.25	4.26
250.00	42.20	5.34
410.00	56.13	19.54
700.00	58.51	62.05
1235.00	48.10	78.97
1600.00	47.15	72.39
2000.00	45.25	75.53
2500.00	32.94	64.35
4500.00	25.30	49.64
5000.00	24.17	38.61



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