

Surface Mount Low Pass Filter

50Ω DC to 95 MHz

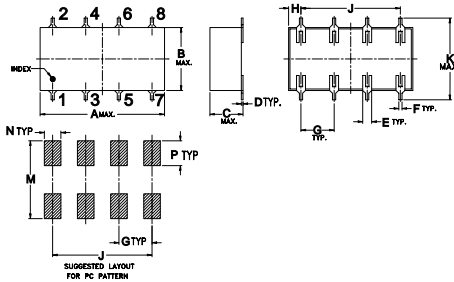
Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W max.

Pin Connections

INPUT	1
OUTPUT	8
GROUND	2,3,4,5,6,7

Outline Drawing

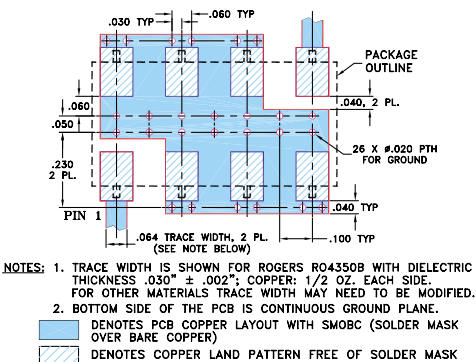


Outline Dimensions (inch)

A	B	C	D	E	F	G
0.75	0.38	0.28	0.01	0.05	0.02	0.2
19.05	9.65	7.11	0.25	1.27	0.51	5.08

H	J	K	M	N	P	wt
0.07	0.6	0.45	0.47	0.1	0.15	grams
1.91	15.24	11.43	11.94	2.54	3.81	1.60

Demo Board MCL P/N: TB-187 Suggested PCB Layout (PL-049)



Features

- wide selection of cut-off frequencies
- excellent rejection
- custom models available

Applications

- defense communications
- receivers/transmitters
- harmonic rejection of VCOs

SCLF-95+
SCLF-95



CASE STYLE: YY161
PRICE: \$11.45 ea. QTY (1-9)

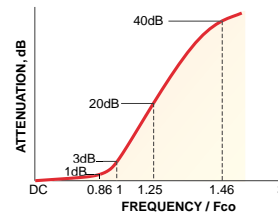
+ RoHS compliant in accordance
with EU Directive (2002/95/EC)

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

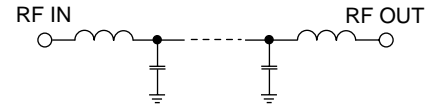
Low Pass Filter Electrical Specifications

PASSBAND (MHz)	fco, (MHz) Nom.	STOPBAND (MHz)	VSWR (:1)
(loss < 1 dB)	(loss 3 dB)	(loss > 20 dB) (loss > 40 dB)	Pass band typ. Stop band typ.
DC-95	108	146-189 189-400	1.7 18

typical frequency response



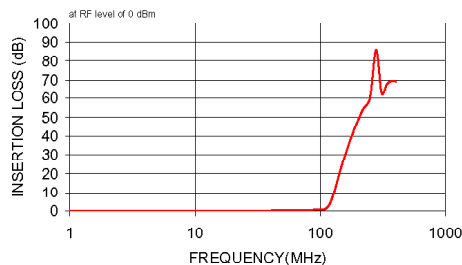
electrical schematic



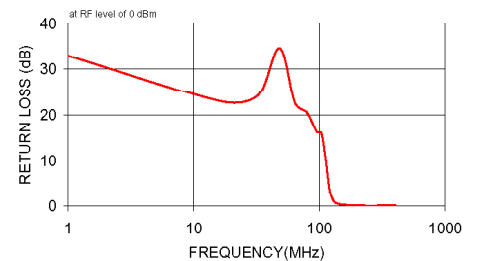
Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)
1.00	0.02	32.85
16.67	0.15	22.87
32.33	0.16	24.17
48.00	0.24	34.50
63.67	0.30	22.61
79.33	0.43	20.49
95.00	0.63	16.33
103.50	0.73	15.93
112.00	1.35	10.08
120.50	4.24	3.43
129.00	10.08	1.11
137.50	16.62	0.55
146.00	22.59	0.35
153.17	26.97	0.25
160.33	30.88	0.23
167.50	34.71	0.17
174.67	38.25	0.14
181.83	41.21	0.15
189.00	44.42	0.10
219.14	54.00	0.08
249.29	59.74	0.06
279.43	85.82	0.05
309.57	62.58	0.09
339.71	67.70	0.13
369.86	69.44	0.16
400.00	69.32	0.19

SCLF-95 INSERTION LOSS



SCLF-95 RETURN LOSS



Mini-Circuits®

INTERNET <http://www.minicircuits.com>

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661
Distribution Centers NORTH AMERICA 800-654-7949 • 417-335-5935 • Fax 417-335-5945 • EUROPE 44-1252-832600 • Fax 44-1252-837010

Mini-Circuits ISO 9001 & ISO 14001 Certified

REV. C
M98898
SCLF-95
060609