

Surface Mount

Low Pass Filter

50Ω DC to 1000 MHz

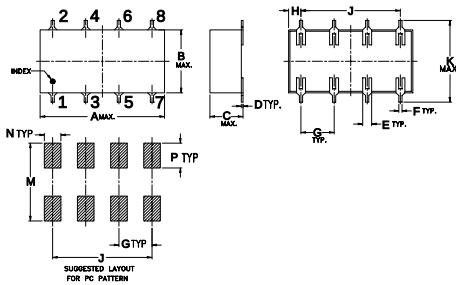
Maximum Ratings

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

Pin Connections

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

Outline Drawing

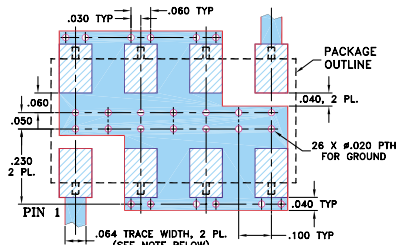


Outline Dimensions (inch/mm)

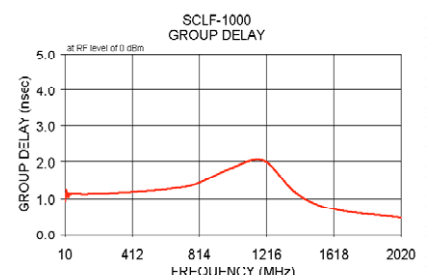
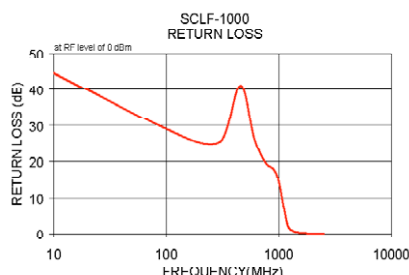
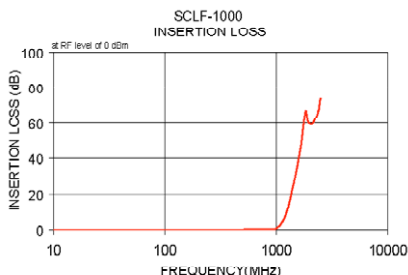
A	B	C	D	E	F	G
0.75	0.38	0.28	0.01	0.05	0.02	0.2
19.05	9.65	7.11	0.25	1.27	0.51	5.08

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)



- NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .030" ± .002"; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
3. DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
4. DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK



SCLF-1000+
SCLF-1000



CASE STYLE: YY161
PRICE: \$12.95 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.

Features

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

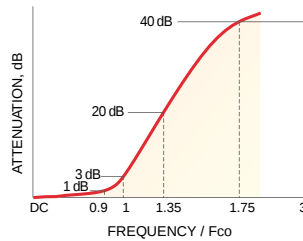
Applications

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

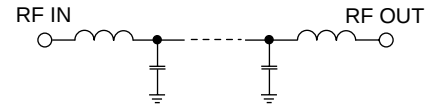
Low Pass Filter Electrical Specifications

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-1000	1200	1620-2100 2100-2500	1.7 18

typical frequency response



electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$	σ		
10.00	0.00	0.00	10.00	0.90
158.80	0.10	0.00	12.00	1.10
307.50	0.20	0.00	14.40	1.00
456.30	0.20	0.00	17.20	1.20
605.00	0.30	0.00	20.70	1.10
753.80	0.40	0.00	24.70	1.20
902.50	0.50	0.00	29.60	1.10
1000.00	0.80	0.10	35.50	1.10
1200.00	7.00	1.50	42.50	1.10
1400.00	23.40	1.76	50.90	1.10
1444.00	27.10	1.78	61.00	1.10
1488.00	30.80	1.80	73.10	1.10
1532.00	34.50	1.90	87.60	1.10
1576.00	38.40	2.00	104.90	1.10
1620.00	42.40	2.30	125.70	1.10
1664.00	46.80	2.60	150.50	1.10
1751.20	58.50	4.40	180.30	1.10
1838.40	67.20	4.00	216.00	1.10
1925.60	60.90	1.90	258.70	1.10
2012.80	59.60	1.40	313.40	1.20
2106.00	59.60	1.30	375.50	1.20
2188.00	61.20	1.10	454.90	1.20
2227.00	62.60	1.40	544.90	1.20
2266.00	63.30	1.60	660.10	1.30
2305.00	64.30	1.50	790.70	1.40
2344.00	65.40	1.90	1000.00	1.80
2383.00	67.40	2.50	1200.00	2.00
2422.00	68.40	1.70	1390.20	1.20
2461.00	72.40	4.90	1620.00	0.70
2500.00	73.60	3.40	2017.50	0.50

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