

Surface Mount Low Pass Filter

SCLF-190+ SCLF-190

50Ω DC to 190 MHz

Maximum Ratings

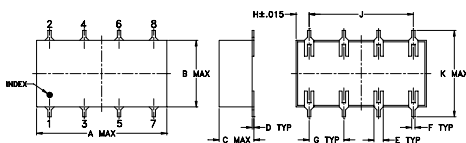
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
Power Input	0.5W max.

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

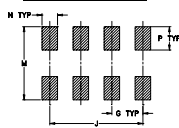
Pin Connections

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

Outline Drawing



PCB Land Pattern

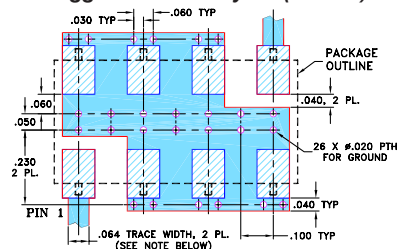


Suggested Layout,
Tolerance to be within ±0.02

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
0.075	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.
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
 - DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Features

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

Applications

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



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

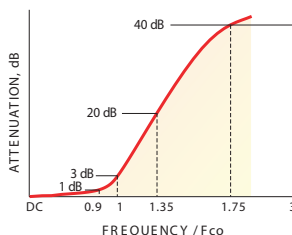
+ RoHS compliant in accordance with EU Directive (2002/95/EC)

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

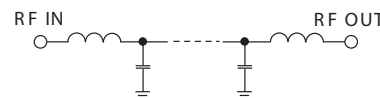
Low Pass Filter Electrical Specifications

PASSBAND (MHz)	f _{co} , (MHz) Nom.	STOPBAND (MHz)		VSWR (:1)	
		(loss > 20 dB)	(loss > 40 dB)	Pass band Typ.	Stop band Typ.
DC-190 (loss < 1 dB)	210 (loss 3 dB)	290-390 (loss > 20 dB)	390-800 (loss > 40 dB)	1.7	18

typical frequency response

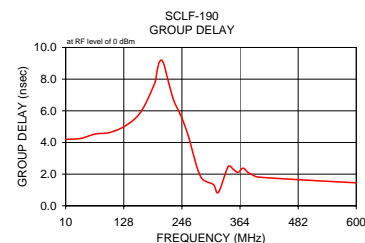
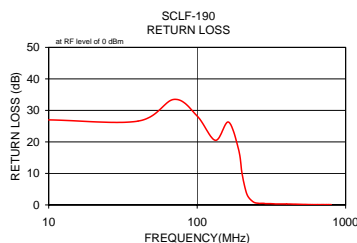
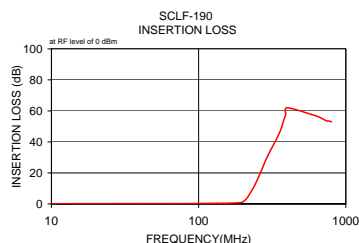


Electrical Schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	\bar{x}	σ			
10.00	0.12	0.10	27.00	10.00	4.20
40.00	0.19	0.10	26.60	40.00	4.25
70.00	0.21	0.10	33.50	70.00	4.54
100.00	0.27	0.10	28.20	100.00	4.63
132.50	0.41	0.10	20.50	132.50	5.08
162.50	0.49	0.10	26.30	162.50	5.93
190.00	0.77	0.10	17.60	190.00	7.69
200.00	1.38	0.10	10.40	195.00	8.44
210.00	3.05	0.10	5.40	200.00	9.07
220.00	5.72	0.10	2.70	205.00	9.20
240.00	11.88	0.10	0.90	210.00	8.88
260.00	18.95	0.30	0.50	220.00	7.66
270.00	22.68	0.40	0.50	230.00	6.61
280.00	26.25	0.50	0.50	240.00	5.96
290.00	29.54	0.60	0.40	250.00	5.22
310.00	35.11	0.80	0.40	260.00	4.32
340.00	42.33	1.20	0.30	270.00	3.16
360.00	47.49	1.60	0.30	280.00	2.12
370.00	50.87	2.40	0.30	290.00	1.62
380.00	54.42	3.60	0.30	310.00	1.34
390.00	57.49	3.20	0.30	320.00	0.85
400.00	62.02	5.20	0.30	340.00	2.48
600.00	57.37	2.30	0.10	350.00	2.31
647.50	56.32	1.40	0.10	360.00	2.11
687.50	55.21	1.80	0.10	370.00	2.38
702.50	54.51	0.90	0.10	380.00	2.11
710.00	54.45	1.30	0.10	390.00	1.94
740.00	53.58	1.30	0.10	400.00	1.82
770.00	53.44	1.40	0.10	500.00	1.62
800.00	53.04	1.10	0.10	600.00	1.45



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IF/RF MICROWAVE COMPONENTS

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