Surface Mount **Low Pass Filter**

SCLF-23+ SCLF-23

DC to 23 MHz 50Ω

Maximum Ratings

RF Power Input			0.5W max.
Storage Temperature	!	-55	s°C to 100°C
Operating Temperatu	re	-4	10°C to 85°C

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

Pin Connections

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

Features

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

Applications

PASSBAND

(MHz)

· defense communications

ATTENUATION,

3dB

FREQUENCY / Fco

- receivers/transmitters
- · harmonic rejection of VCOs

CASE STYLE: YY161 PRICE: \$8.95 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.

VSWR

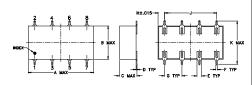
(:1)

Stop band

Тур.

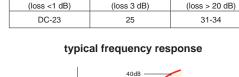
18

Outline Drawing





Suggested Layout, Tolerance to be within ±.002



fco, (MHz)

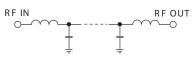
Nom.

Electrical Schematic

Pass band

Тур.

1.5



Outline Dimensions (inch)

Α	В	С	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
Н	J	K	М	Ν	Р	wt
H 0.075	J 0.6	K 0.45		N 0.1		wt grams

Typical Performance Data

Low Pass Filter Electrical Specifications STOPBAND

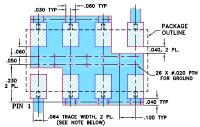
(loss > 40 dB)

34-320

(MHz)

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)			
, ,	x	σ	` ,			
0.50	0.04	0.00	47.53			
10.00	0.15	0.01	27.68			
20.00	0.34	0.01	27.41			
23.00	0.56	0.02	29.85			
24.00	0.86	0.07	16.61			
25.00	2.08	0.27	7.30			
28.00	14.92	0.90	0.58			
29.00	20.12	0.97	0.36			
31.00	30.51	1.17	0.20			
33.00	41.95	1.57	0.14			
34.00	49.11	2.08	0.13			
39.00	59.20	1.29	0.09			
50.00	70.50	1.95	0.09			
70.00	73.61	3.76	0.09			
100.00	71.99	3.37	0.12			
200.00	57.14	0.56	0.17			
320.00	56.92	0.68	0.21			
400.00	35.33	0.58	0.28			

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



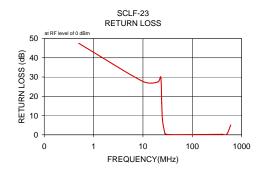
NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .030" ± .002"; COPPER: 1/2 0Z. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.

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





For detailed performance specs & shopping online see web site

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicipcuits.com IF/RF MICROWAVE COMPONENTS