SXLP-1100+

50 Ω DC to 1100 MHz

The Big Deal

- Wide stopband Rejection, (>20 dB till 8.5 GHz)
- Good VSWR, 1.3:1 typical
- High rejection, 40 dB typical
- Flat Group delay, 1 ns typical



CASE STYLE: HF1139

Product Overview

SXLP-1100+ is a 50Ω lowpass filter in a shielded Package (size of 0.44" x 0.74" x 0.27") fabricated using SMT technology. Covering up to 1100 MHz, these units offers low insertion loss, good matching within the passband and high rejection. This units uses a miniature high Q capacitors and air coil inductors for high reliability. In addition it has repeatable performance across production lots and consistent performance across temperature.

Key Features

Feature	Advantages			
Wide stopband (> 20 dB till 8.5 GHz)	Suitable for application which needs far-frequency attenuation, for e.g. Defense Communications.			
Good VSWR, 1.3:1 typical over passband	The model has very good return loss which provides good matching when used with other de			
High Rejection, 40 dB typical	This enables the filter to attenuate harmonics and spurious signals.			
Flat Group delay characteristics (1 ns typical)	The model has a flat group delay of 1 ns which helps in reducing the signal distortion.			

For detailed performance spec-& shopping online see web site

Low Pass Filter

50 Ω DC to 1100 MHz

SXLP-1100+



CASE STYLE: HF1139 PRICE: \$12.95 ea. QTY (1-9)

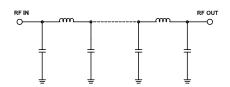
Features

- Flat group delay, 1 ns typical over passband
- Wide stopband rejection, (>20dB till 8.5 GHz)
- Good VSWR, 1.3 typical in passband
- High rejection, 40 dB typical
- Shielded case
- · Aqueous washable

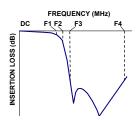
Applications

- Cable TV
- Receivers/transmitters
- Defense communications
- · Harmonic rejection

Functional Schematic



Typical Frequency Response



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

The +Suffix has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Electrical Specifications at 25°C Frequency (MHz) **Parameter** Тур. Max. Unit DC - 1100 DC-F1 Insertion Loss 0.9 1.5 dB Pass Band Freq. Cut-Off F2 1225 3.5 dB **VSWR** DC-F1 DC - 1100 1.3 1.7 :1 Rejection Loss F3-F4 1440 - 8500 20 35 dΒ Stop Band **VSWR** F3-F4 1440 - 8500 7 :1

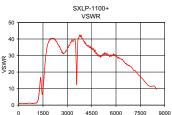
Maximum Ratings					
Operating Temperature	-40°C to 85°C				
Storage Temperature	-55°C to 100°C				
RF Power Input	1W max.				

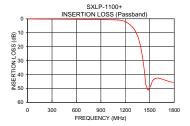
Permanent damage may occur if any of these limits are exceeded.

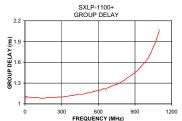
Typical Performance Data at 25°C

1.0 0.02 1.00 1.00 1.05 30.0 0.05 1.02 5.00 1.11 70.0 0.09 1.04 10.00 1.10 230.0 0.20 1.12 50.00 1.09 650.0 0.39 1.16 70.00 1.09 1100.0 0.84 1.30 150.00 1.08 1180.0 2.00 2.51 200.00 1.09	ay
70.0 0.09 1.04 10.00 1.10 230.0 0.20 1.12 50.00 1.09 650.0 0.39 1.16 70.00 1.09 1100.0 0.84 1.30 150.00 1.08	
230.0 0.20 1.12 50.00 1.09 650.0 0.39 1.16 70.00 1.09 1100.0 0.84 1.30 150.00 1.08	
650.0 0.39 1.16 70.00 1.09 1100.0 0.84 1.30 150.00 1.08	
1100.0 0.84 1.30 150.00 1.08	
1180.0 2.00 2.51 200.00 1.09	
1225.0 3.71 4.35 250.00 1.09	
1250.0 5.02 5.95 350.00 1.11	
1290.0 7.73 9.63 410.00 1.13	
1350.0 15.58 16.56 450.00 1.14	
1400.0 28.98 12.26 500.00 1.15	
1420.0 36.47 9.43 550.00 1.17	
1440.0 44.14 7.34 600.00 1.19	
1550.0 38.36 14.62 700.00 1.25	
3000.0 39.92 34.07 800.00 1.33	
5000.0 45.67 29.96 900.00 1.45	
6500.0 46.93 26.33 1000.00 1.64	
7500.0 45.97 17.22 1050.00 1.82	
8500.0 30.83 9.48 1100.00 2.07	









For detailed performance spec & shopping online see web site



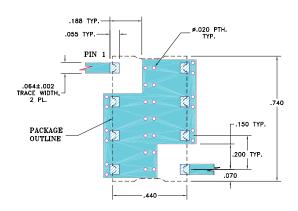
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicipcuits.com

REV. OR

Pad Connections

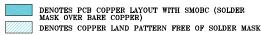
INPUT	1
OUTPUT	8
GROUND	2,3,4,5,6,7

Demo Board MCL P/N: TB-368 Suggested PCB Layout (PL-230)

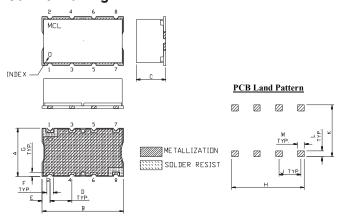


NOTE:

- 1. TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS: .025"±.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.



Outline Drawing



Outline Dimensions (inch)

G	F	Е	D	С	В	Α
.040	.060	.07	.200	.27	.74	.44
1.02	1.52	1.78	5.08	6.86	18.80	11.18
wt		M	L	K	J	Н
grams		.060	.055	.470	.200	.660
3.0		1 52	1 40	11 94	5.08	16 76



For detailed performance specs & shopping online see web site