

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.

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

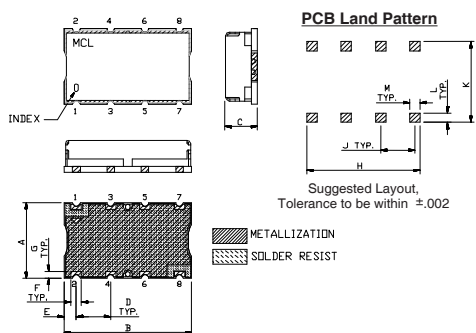
Pin Connections

INPUT 1

OUTPUT 8

GROUND 2, 3, 4, 5, 6, 7

Outline Drawing

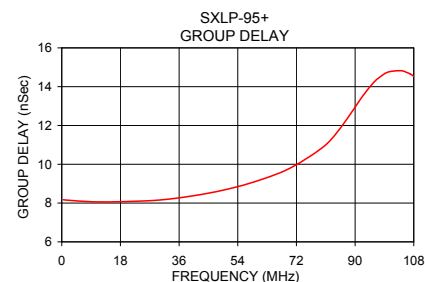
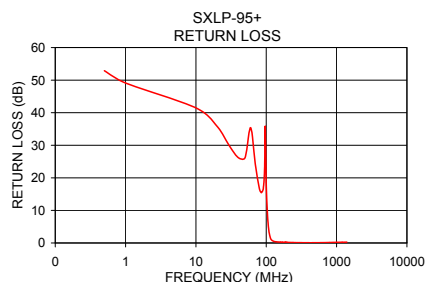
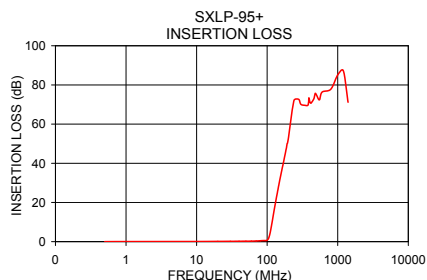
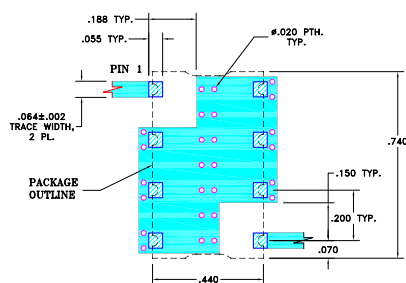


Outline Dimensions (inch mm)

A	B	C	D	E	F	G	H	J	K	L	M	wt.
.44	.74	.27	.200	.07	.060	11.18	18.80	6.86	5.08	1.78	1.52	
.040	.660	.200	.470	.055	.060	1.02	16.76	5.08	11.94	1.40	1.52	grams
												3.0

Demo Board MCL P/N: TB-368

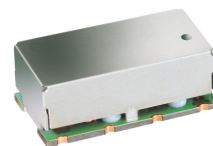
Suggested PCB Layout (PL-230)



Notes

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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SXLP-95+


CASE STYLE: HF1139

+RoHS Compliant

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

Features

- high rejection
- sharp cut-off
- shielded package
- aqueous washable
- low cost

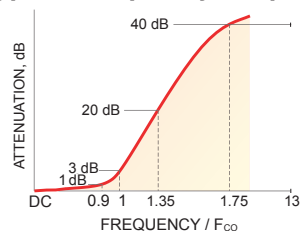
Applications

- test equipments
- defense communications
- receivers / transmitters
- harmonic rejection

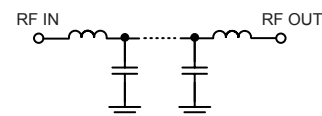
Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

PASSBAND (MHz)	f _{co} , MHz Nom.	STOPBAND (MHz)	VSWR (:1)
(Loss < 1dB)	(Loss 3dB)	(Loss > 20dB) (Loss > 40dB)	Passband Typ. Stopband Typ.
DC - 95	108	146 - 189 189 - 1400	1.7 18

Typical Frequency Response



Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nSec)
$\bar{x}$	σ			
0.5	0.02	0.01	0.5	8.17
1.0	0.04	0.00	10.0	8.06
10.0	0.08	0.00	20.0	8.08
30.0	0.15	0.01	30.0	8.16
70.0	0.31	0.01	40.0	8.37
95.0	0.53	0.01	50.0	8.68
100.0	0.79	0.03	60.0	9.14
104.0	1.57	0.10	70.0	9.80
108.0	3.30	0.21	80.0	10.87
115.0	8.14	0.47	85.0	11.76
120.0	12.00	0.61	90.0	12.95
146.0	28.80	0.94	91.0	13.19
189.0	48.66	1.53	92.0	13.44
200.0	53.38	2.00	93.0	13.66
400.0	72.49	2.86	94.0	13.88
800.0	80.12	3.70	95.0	14.08
1200.0	78.78	5.48	100.0	14.75
1400.0	71.99	2.28	108.0	14.53

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