

Low Pass Filter

SXLP-95+

50Ω DC to 95 MHz

Maximum Ratings

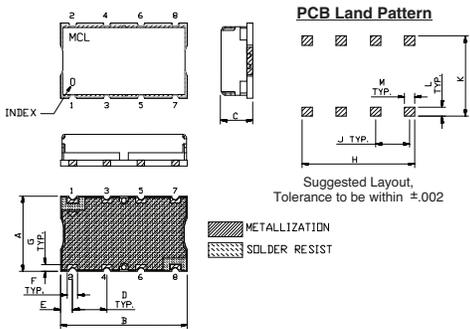
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W Max.

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

Pin Connections

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

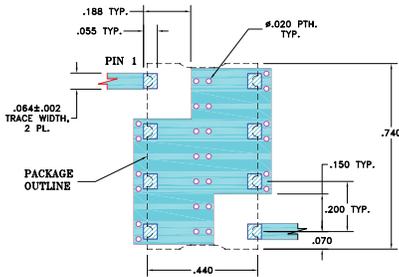
Outline Drawing



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	grams
						1.02	16.76	5.08	11.94	1.40	1.52	3.0

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



Features

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

Applications

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



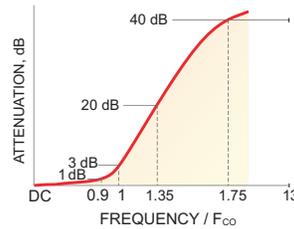
CASE STYLE: HF1139
PRICE: \$11.45 ea. QTY (1-9)

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

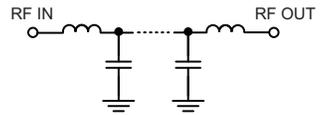
Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

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

Typical Frequency Response

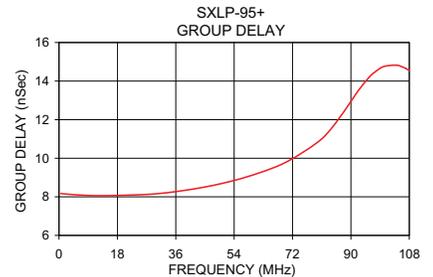
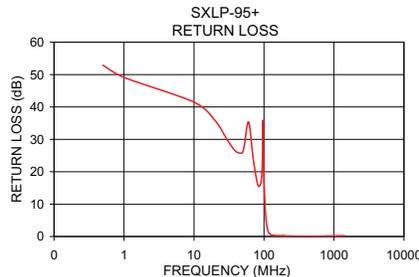


Functional Schematic



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	52.90	0.5	8.17
1.0	0.04	0.00	49.11	10.0	8.06
10.0	0.08	0.00	41.48	20.0	8.08
30.0	0.15	0.01	29.77	30.0	8.16
70.0	0.31	0.01	24.07	40.0	8.37
95.0	0.53	0.01	23.82	50.0	8.68
100.0	0.79	0.03	18.19	60.0	9.14
104.0	1.57	0.10	8.88	70.0	9.80
108.0	3.30	0.21	4.43	80.0	10.87
115.0	8.14	0.47	1.48	85.0	11.76
120.0	12.00	0.61	0.84	90.0	12.95
146.0	28.80	0.94	0.31	91.0	13.19
189.0	48.66	1.53	0.20	92.0	13.44
200.0	53.38	2.00	0.18	93.0	13.66
400.0	72.49	2.86	0.07	94.0	13.88
800.0	80.12	3.70	0.15	95.0	14.08
1200.0	78.78	5.48	0.23	100.0	14.75
1400.0	71.99	2.28	0.26	108.0	14.53



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 minicircuits.com

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. 2. Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. 3. The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp.

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