

Low Pass Filter

50Ω DC to 10 MHz

SXLP-10+

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.

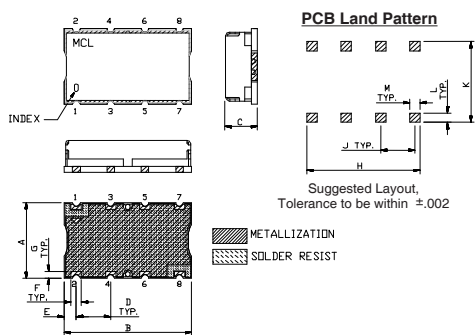
Pin Connections

INPUT 1

OUTPUT 8

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

Outline Drawing

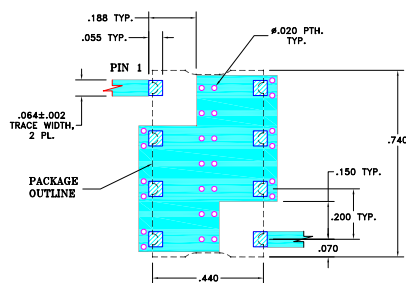


Outline Dimensions (inch mm)

A	B	C	D	E	F	
.44	.74	.27	.200	.07	.060	
11.18	18.80	6.86	5.08	1.78	1.52	
G	H	J	K	L	M	wt.
.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)

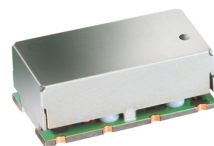


Features

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

Applications

- defense communications
- receivers / transmitters
- harmonic rejection



CASE STYLE: HF1139

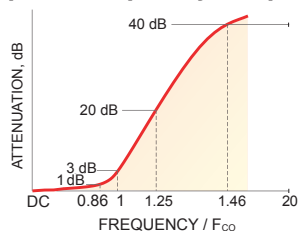
+RoHS Compliant

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

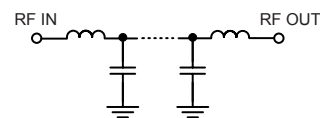
Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

PASSBAND (MHz)	f _{co} , MHz Nom.	STOPBAND (MHz)	VSWR (:1)
(Loss < 1dB)	(Loss 3dB)	(Loss > 20dB) (Loss > 40dB)	Passband Typ. Stopband Typ.
DC - 10	11.2	14 - 16 16 - 230	1.2 18

Typical Frequency Response

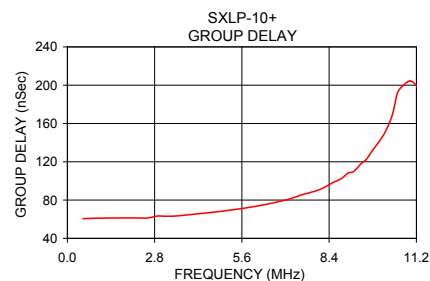
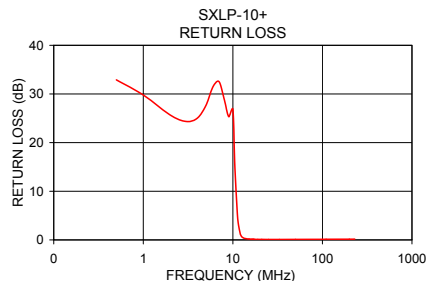
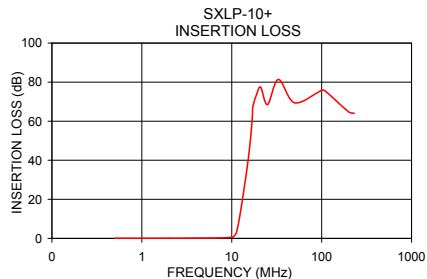


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nSec)
$\bar{x}$	σ			
0.5	0.03	0.00	0.5	60.52
2.0	0.07	0.00	2.5	61.12
5.0	0.15	0.01	2.7	62.00
8.0	0.29	0.01	2.9	63.30
10.0	0.58	0.02	3.1	63.10
10.5	0.95	0.07	3.3	63.12
11.0	2.14	0.19	3.5	63.40
11.2	3.05	0.26	4.0	65.03
11.7	6.53	0.44	5.0	68.54
12.4	13.07	0.57	6.0	73.24
14.0	28.71	0.68	7.5	85.27
16.0	49.92	1.04	8.0	89.81
20.0	77.84	4.07	8.3	94.14
30.0	74.45	1.46	8.5	97.89
100.0	75.56	2.51	9.0	107.94
120.0	72.40	2.09	9.6	122.71
140.0	69.23	1.51	10.0	140.89
160.0	66.85	1.18	10.5	172.46
200.0	64.18	0.83	11.0	200.44
230.0	63.37	0.87	11.2	204.40



Notes

- 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.
- 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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