

Low Pass Filter

SXLP-65+

50Ω DC to 65 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.

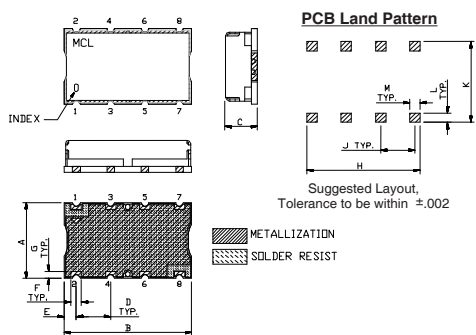
Pin Connections

INPUT 1

OUTPUT 8

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

Outline Drawing

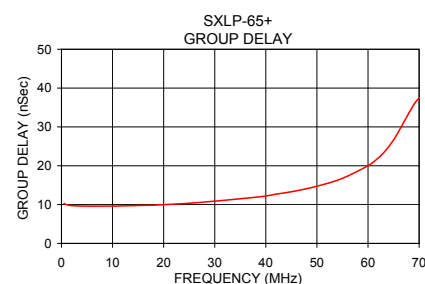
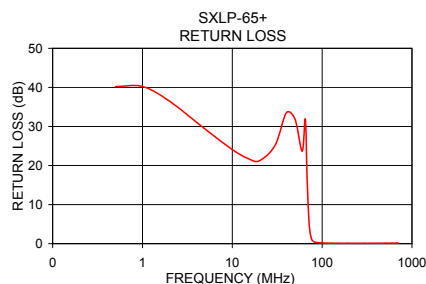
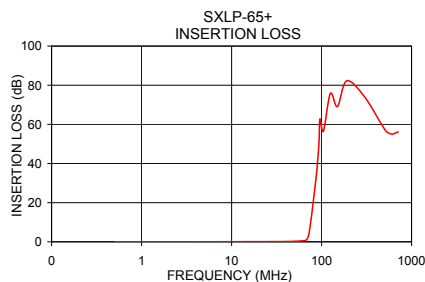
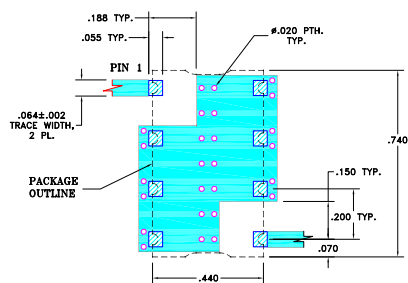


Outline Dimensions (inch mm)

A	B	C	D	E	F	
.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)



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.

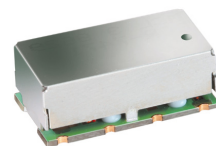
C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp

Features

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

Applications

- defense communications
- receivers / transmitters
- harmonic rejection



CASE STYLE: HF1139

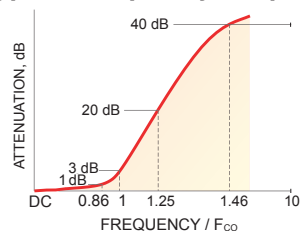
+RoHS Compliant

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

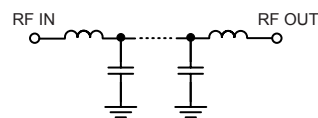
Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

PASSBAND (MHz)	f _{co} , MHz Nom.	STOPBAND (MHz)		VSWR (:1)	
		(Loss > 20dB)	(Loss > 40dB)	Passband Typ.	Stopband Typ.
DC - 65	71	86 - 96	96 - 710	1.3	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	0.00	0.00	40.20	0.5	10.29
2.0	0.01	0.00	36.47	2.0	9.73
4.0	0.02	0.00	31.19	10.0	9.61
8.0	0.04	0.00	25.68	12.0	9.67
12.5	0.08	0.01	22.69	14.0	9.74
40.0	0.17	0.00	33.51	18.0	9.85
55.0	0.34	0.01	34.56	20.0	9.98
65.0	0.65	0.01	31.87	25.0	10.34
69.0	1.43	0.05	12.39	30.0	10.87
71.0	2.83	0.07	6.52	35.0	11.49
73.0	5.41	0.09	3.26	38.0	11.90
76.0	10.87	0.14	1.27	40.0	12.20
81.0	20.98	0.18	0.50	42.0	12.67
86.0	31.32	0.19	0.33	44.0	13.07
96.0	63.99	1.46	0.22	47.0	13.82
200.0	84.35	1.60	0.11	51.0	15.08
300.0	74.14	0.71	0.12	55.0	16.76
400.0	61.96	0.21	0.13	62.0	22.01
500.0	57.17	0.22	0.13	65.0	26.64
710.0	56.34	0.33	0.16	70.0	37.39

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