

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.

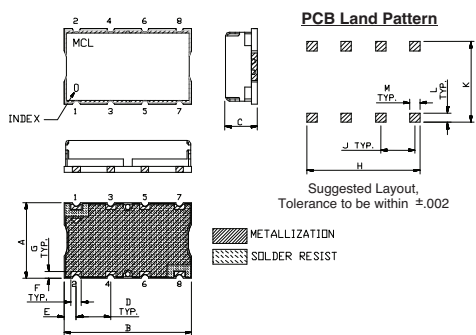
Pin Connections

INPUT 1

OUTPUT 8

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

Outline Drawing

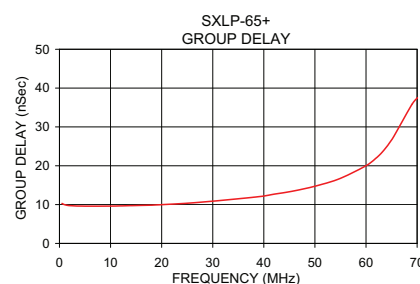
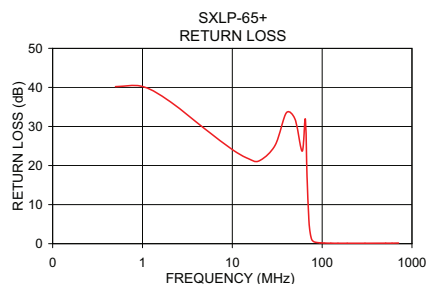
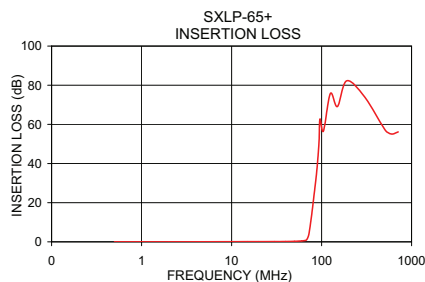
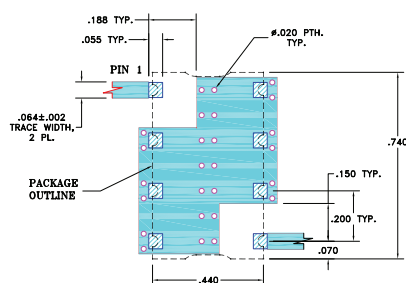


Outline Dimensions (inch mm)

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)

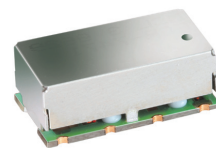


Features

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

Applications

- defense communications
- receivers / transmitters
- harmonic rejection



CASE STYLE: HF1139
PRICE: \$ 8.95 ea. QTY (1-9)

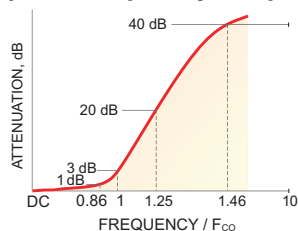
+RoHS Compliant

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

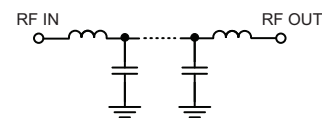
Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

PASSBAND (MHz)	f _{co} , MHz Nom.	STOPBAND (MHz)	VSWR (:1)
(Loss < 1dB)	(Loss 3dB)	(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	0.5	10.29
2.0	0.01	0.00	2.0	9.73
4.0	0.02	0.00	10.0	9.61
8.0	0.04	0.00	12.0	9.67
12.5	0.08	0.01	14.0	9.74
40.0	0.17	0.00	18.0	9.85
55.0	0.34	0.01	20.0	9.98
65.0	0.65	0.01	25.0	10.34
69.0	1.43	0.05	30.0	10.87
71.0	2.83	0.07	35.0	11.49
73.0	5.41	0.09	38.0	11.90
76.0	10.87	0.14	40.0	12.20
81.0	20.98	0.18	42.0	12.67
86.0	31.32	0.19	44.0	13.07
96.0	63.99	1.46	47.0	13.82
200.0	84.35	1.60	51.0	15.08
300.0	74.14	0.71	55.0	16.76
400.0	61.96	0.21	62.0	22.01
500.0	57.17	0.22	65.0	26.64
710.0	56.34	0.33	70.0	37.39