

Low Pass Filter

SXLP-550+

50Ω DC to 550 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.

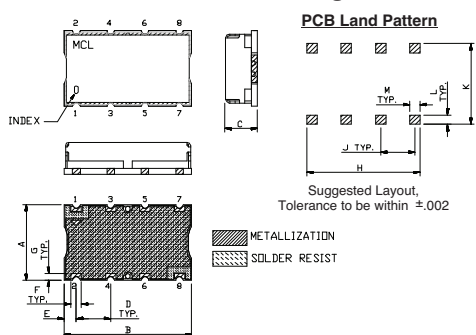
Pin Connections

INPUT 1

OUTPUT 8

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

Outline Drawing

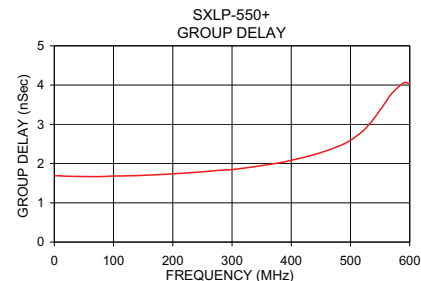
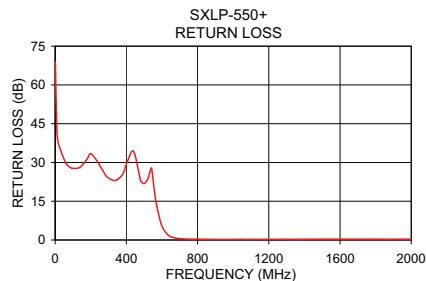
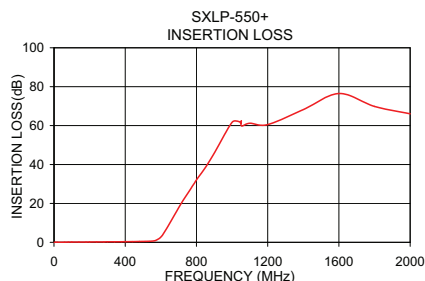
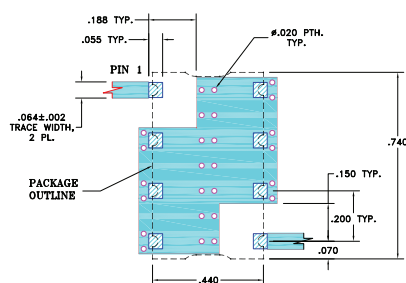


Outline Dimensions (inch mm)

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
.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)

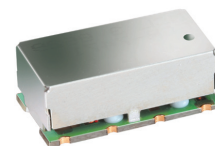


Features

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

Applications

- defense communications
- receivers / transmitters
- harmonic rejection



CASE STYLE: HF1139
PRICE: \$12.95 ea. QTY (1-9)

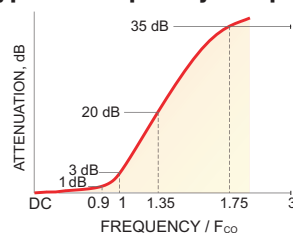
+RoHS Compliant

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

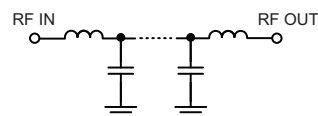
Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

PASSBAND (MHz)	f _{co} , MHz Nom.	STOPBAND (MHz)	VSWR (:1)
(Loss < 1dB)	(Loss 3dB)	(Loss > 20dB) (Loss > 35dB)	Passband Typ. Stopband Typ.
DC - 550	605	800 - 1050 1050 - 2000	1.2 18

Typical Frequency Response



Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB) $\bar{x}$	Insertion Loss (dB) σ	Return Loss (dB)	Frequency (MHz)	Group Delay (nSec)
1.0	0.00	0.00	69.04	1.0	1.69
10.0	0.02	0.00	41.71	20.0	1.68
20.0	0.04	0.00	36.95	60.0	1.67
80.0	0.10	0.00	28.33	80.0	1.67
240.0	0.21	0.01	30.11	100.0	1.68
550.0	0.59	0.01	23.37	140.0	1.69
570.0	0.89	0.05	13.45	180.0	1.72
590.0	1.78	0.14	7.45	200.0	1.74
605.0	3.03	0.24	4.63	240.0	1.78
640.0	7.95	0.40	1.59	280.0	1.83
680.0	14.28	0.45	0.69	340.0	1.93
800.0	31.71	0.46	0.29	380.0	2.02
1000.0	62.20	2.05	0.23	400.0	2.09
1050.0	69.14	5.07	0.23	440.0	2.23
1100.0	65.76	2.92	0.24	500.0	2.60
1200.0	63.70	1.94	0.25	520.0	2.82
1400.0	69.58	1.57	0.29	530.0	2.97
1600.0	77.50	3.42	0.31	550.0	3.37
1800.0	71.54	3.52	0.31	570.0	3.79
2000.0	67.87	2.44	0.32	600.0	4.02

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