

Low Pass Filter

SXLP-4.7+

50Ω DC to 4.7 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.

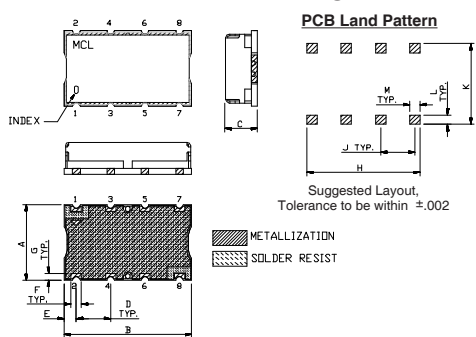
Pin Connections

INPUT 1

OUTPUT 8

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

Outline Drawing

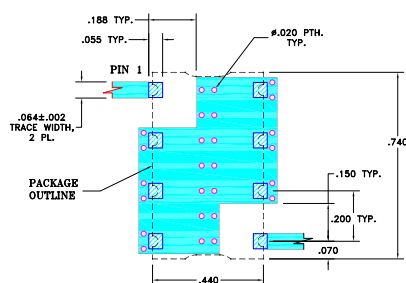


Outline Dimensions (inch mm)

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)

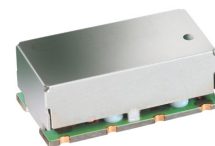


Features

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

Applications

- defense communications
- receivers / transmitters
- harmonic rejection



CASE STYLE: HF1139

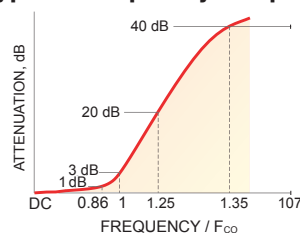
+RoHS Compliant

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

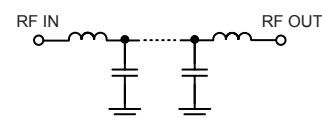
Low Pass Filter Electrical Specifications (T_{AMB} = 25°C)

PASSBAND (MHz)	f _{co} , MHz Nom.	STOPBAND (MHz)	VSWR (:1)
(Loss < 1dB)	(Loss 3dB)	(Loss > 20dB) (Loss > 40dB)	Passband Typ. Stopband Typ.
DC - 4.7	5.6	6.6 - 7.4 7.4 - 600	1.25 18

Typical Frequency Response

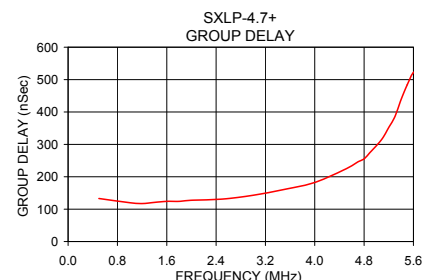
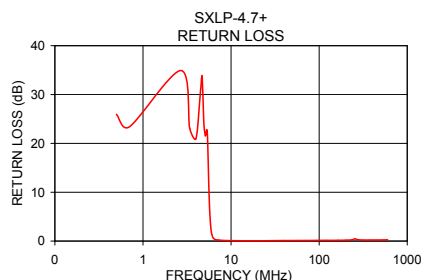
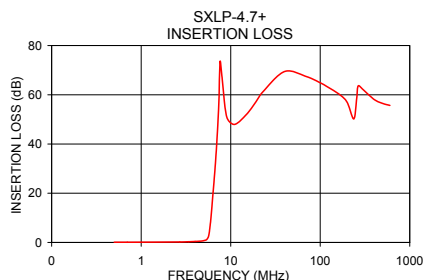


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	Return Loss (dB)	Frequency (MHz)	Group Delay (nSec)
$\bar{x}$	σ			
0.5	0.08	0.01	0.5	132.84
2.7	0.20	0.01	1.2	117.19
2.7	0.20	0.01	1.4	120.85
4.5	0.49	0.02	1.6	124.16
4.7	0.56	0.02	1.8	124.15
5.3	1.02	0.04	2.0	127.50
5.6	2.09	0.32	2.5	131.07
5.8	4.70	0.75	3.0	142.83
6.0	9.43	1.03	3.5	160.70
6.2	15.17	1.09	4.0	182.44
6.6	27.16	1.10	4.5	223.68
7.4	57.30	1.96	4.7	245.95
15.0	52.02	0.24	4.8	255.31
23.0	61.33	0.16	5.0	295.98
40.0	69.54	0.59	5.2	352.27
100.0	65.17	0.41	5.3	385.52
200.0	57.06	0.25	5.4	438.20
400.0	58.40	0.26	5.5	484.24
600.0	55.96	0.30	5.6	521.62



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.
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