HenryTech

Low Pass Filter

HT-SXLP-5+

50Ω DC to 5MHz

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

Applications
- defense communications
- receivers / transmitters
- harmonic rejection

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

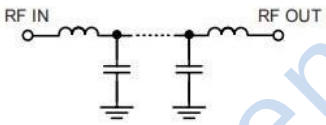
PASSBAND (MHz) (Loss>1dB)	FCO,(MHz) Nom. (Loss 3dB)	STOPBAND (MHz) (Loss<20dB)	(Loss>40dB)	VSWR(:1) Passband Typ.	Stopband Typ.
DC-5	5.8	8-11	11-600	1.7	18

Maximum Ratings	
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	0.5W max.

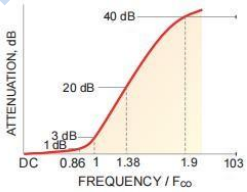
Permanent damage may occur if any of these limits are exceeded.

Pin Connections	
INPUT	1
OUTPUT	8
GROUND	2,3,4,5,6,7

Functional Schematic

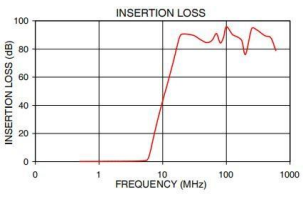


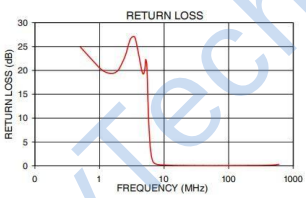
Typical Frequency Response

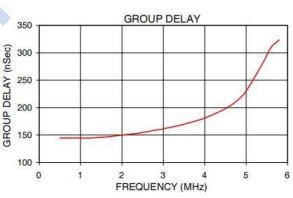


Typical Performance Data at 25℃

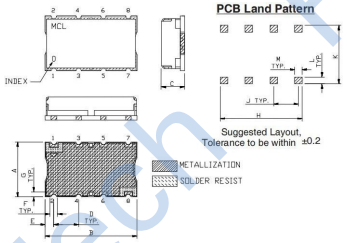
Frequency (MHz)	Insertion Loss (dB) X̄	σ	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
0..5	0.14	0.01	24.96	0.5	144.47
1.0	0.19	0.01	20.52	1.0	144.53
3.0	0.28	0.01	26.53	1.2	144.36
5.0	0.59	0.02	20.05	1.6	146.31
5.6	1.03	0.08	14.37	1.8	148.02
5.8	1.75	0.15	8.91	2.0	149.91
6.0	3.12	0.26	5.25	2.4	153.25
6.2	5.18	0.37	3.04	2.8	158.65
6.5	9.03	0.47	1.42	3.0	161.28
7.2	18.17	0.54	0.46	3.4	167.81
8.0	26.98	0.55	0.27	3.6	171.89
11.0	50.31	0.79	0.13	3.8	175.98
15.0	72.81	3.70	0.08	4.0	181.00
20.0	85.05	5.02	0.07	4.4	194.27
40.0	83.17	2.38	0.05	4.8	214.04
80.0	84.66	1.98	0.04	5.0	230.15
100.0	92.67	3.38	0.05	5.4	281.00
400.0	87.76	6.66	0.11	5.6	309.78
600.0	77.91	3.06	0.32	5.8	323.56





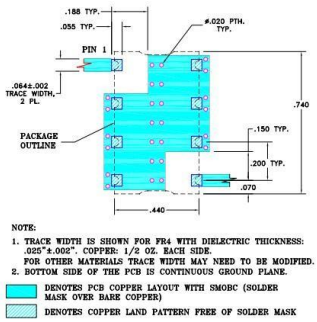


Outline Drawing



Outline Dimensions：Unit (mm)			
A	11.18	G	1.02
B	18.80	H	16.76
C	6.86	J	5.08
D	5.08	K	11.94
E	1.78	L	1.40
F	1.52	M	1.52
WT	0.3g		

Suggested PCB Layout



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