HenryTech

Low Pass Filter

HT-SXLP-36+

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

Applications
- defense communications
- receivers / transmitters
- harmonic rejection

50Ω DC to 36 MHz

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-36	40	50-57	57-560	1.3	18

Maximum Ratings

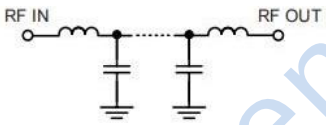
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	0.5W max.

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

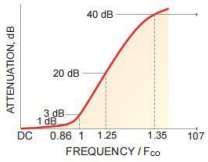
Pin Connections

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

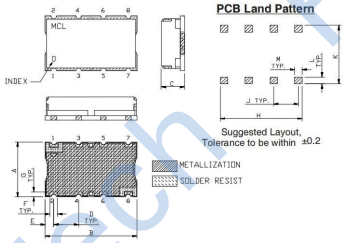
Functional Schematic



Typical Frequency Response



Outline Drawing

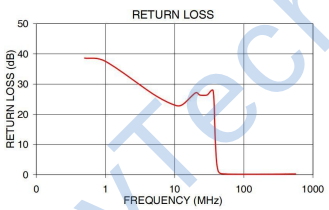


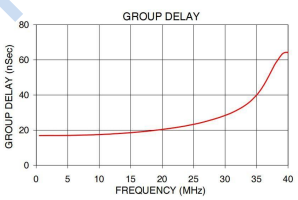
Outline Dimensions：Unit (mm)

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		

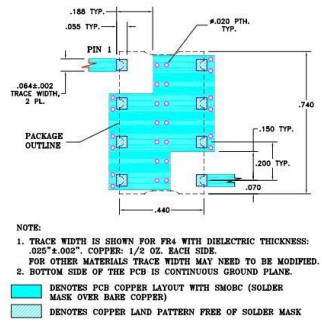
Typical Performance Data at 25℃

Frequency (MHz)	Insertion Loss (dB) Ẋ	σ	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
0.5	0.01	0.00	38.73	0.5	16.94
1.5	0.02	0.00	35.43	2.0	16.96
4.0	0.04	0.00	28.46	8.0	17.22
10.0	0.08	0.01	23.57	9.0	17.33
23.0	0.16	0.01	31.50	9.5	17.40
32.0	0.32	0.01	27.33	10.0	17.47
36.0	0.49	0.02	32.45	10.5	17.53
38.0	0.83	0.03	15.46	11.0	17.66
39.2	1.67	0.03	8.33	11.5	17.71
40.0	2.82	0.04	5.25	12.0	17.83
41.2	5.62	0.09	2.52	12.0	18.05
43.0	11.31	0.14	0.95	13.0	18.55
50.0	32.26	0.24	0.24	15.0	18.56
57.0	69.51	3.35	0.17	17.0	19.17
70.0	70.55	1.15	0.15	19.0	20.88
80.0	77.59	0.51	0.14	21.0	26.02
100.0	81.58	0.73	0.13	28.0	28.38
200.0	71.18	2.26	0.15	30.0	33.68
400.0	58.81	0.73	0.19	33.0	44.89
560.0	59.98	0.85	0.23	40.0	64.15





Suggested PCB Layout



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