HenryTech

Low Pass Filter

HT-SXLP-90+

50Ω DC to 90 MHz

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

Applications
- test equipments
- defense communications
- receivers / transmitters
- harmonic rejection

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

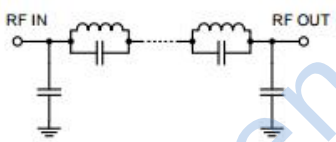
PASSBAND (MHz) (Loss<1dB)	FCO,(MHz) Nom. (Loss 3dB)	STOPBAND (MHz) (Loss>20dB)	(Loss>40dB)	VSWR(:1) Passband Typ.	Stopband Typ.
DC-90	94	105-170	170-1000	1.2	18

Maximum Ratings

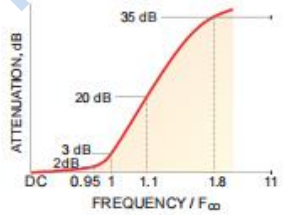
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	0.5W max.

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

Functional Schematic



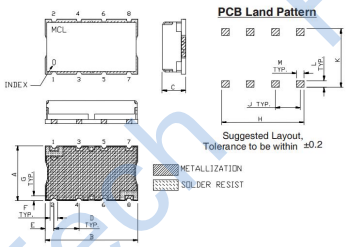
Typical Frequency Response



Pin Connections

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

Outline Drawing

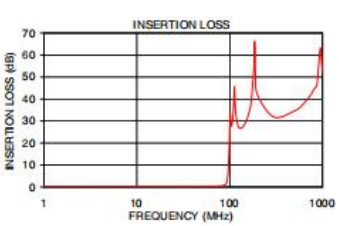


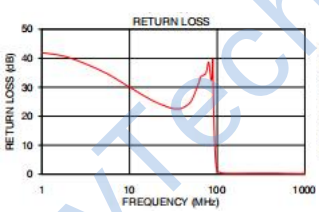
Typical Performance Data at 25°C

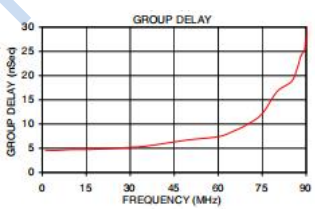
Frequency (MHz)	Insertion Loss (dB) ẋ	σ	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
1.0	0.03	0.02	41.95	1.0	4.63
5.0	0.06	0.02	35.35	2.0	4.63
20.0	0.11	0.02	24.82	5.0	4.58
50.0	0.21	0.02	25.05	10.0	4.57
75.0	0.40	0.02	35.12	15.0	4.73
85.0	0.66	0.02	32.46	20.0	4.74
90.0	1.08	0.02	31.00	30.0	4.84
93.0	2.09	0.12	13.12	40.0	5.41
94.0	2.96	0.19	9.38	50.0	5.84
95.0	4.40	0.29	6.45	60.0	6.74
97.0	9.70	0.44	2.99	65.0	7.39
99.0	18.72	0.68	1.69	70.0	8.47
100.0	25.21	0.94	1.38	75.0	9.94
105.0	27.65	0.93	0.76	80.0	12.14
170.0	39.96	1.75	0.30	85.0	16.65
300.0	31.73	0.23	0.35	87.0	18.81
500.0	34.60	0.18	0.33	89.0	23.75
945.0	58.72	2.92	0.24	89.5	24.88
1000.0	51.39	1.46	0.28	90.0	27.29

Outline Dimensions：Unit (mm)

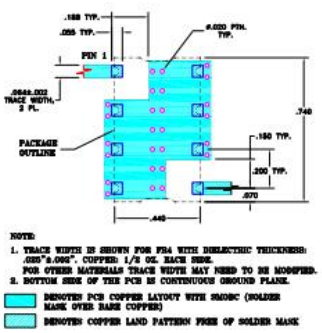
A	11.18	G	1.02
B	18.80	H	16.76
C	6.86	J	5.08
D	5.08	K	11.94
E	1.78	L	1.40
F	1.52	M	1.52
WT	0.3g		







Suggested PCB Layout



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