HenryTech

Bandpass Filter

HT-SXBP-1200+

Features
- wideband, 800 to 1800 MHz
- flat group delay @ passband, 1 nsec typ.
- shielded case
- aqueous washable

Applications
- receivers/transmitters
- wireless communication systems
- harmonic rejection

50Ω 800 to 1800 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.

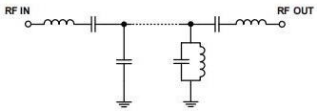
Bandpass Filter Electrical Specifications (T_{AMB}= 25℃)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 5.5dB)	STOPBAND (MHz) (Loss>20dB)		(Loss>40dB)		VSWR Passband		VSWR Stopband
Fc	F1 - F2	F3	F4	F5	F6	Typ.	Max.	Typ.
1200	800-1800	535	2220	530	2250-5000	1.5	2.1	20

Typical Performance Data at 25℃

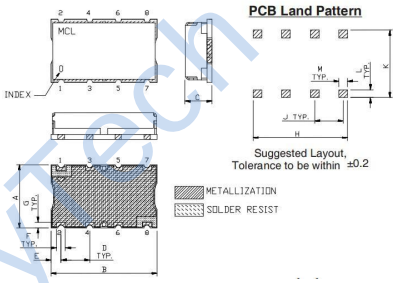
Frequency (MHz)	Insertion Loss (dB) x̄	Insertion Loss (dB) σ	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
1	72.93	0.47	0.00	800	1.66
530	38.97	2.80	0.49	850	1.49
535	34.94	2.93	0.51	900	1.37
570	15.37	0.93	0.88	950	1.29
600	7.18	0.56	2.18	1000	1.23
620	3.81	0.35	4.23	1050	1.19
650	1.61	0.13	8.35	1150	1.14
800	0.67	0.02	17.35	1200	1.13
1000	0.77	0.01	13.11	1250	1.13
1200	0.79	0.01	13.92	1300	1.13
1500	0.97	0.04	14.26	1350	1.14
1800	1.23	0.06	25.74	1400	1.15
1970	3.72	0.83	6.44	1500	1.19
2030	8.79	1.47	3.08	1600	1.27
2100	16.46	1.72	1.67	1650	1.32
2220	32.60	2.60	1.02	1700	1.39
2250	36.64	3.50	0.96	1750	1.48
5000	32.11	1.21	0.98	1800	1.63

Functional Schematic

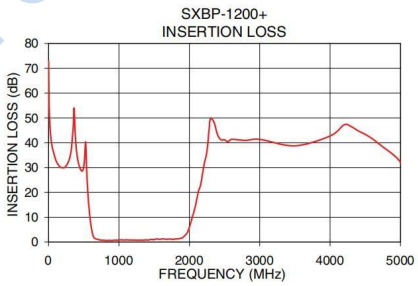


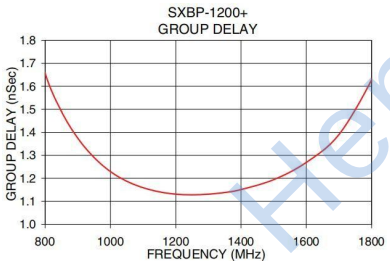
Pad Connections	
INPUT	1
OUTPUT	8
GROUND	2,3,4,5,6,7

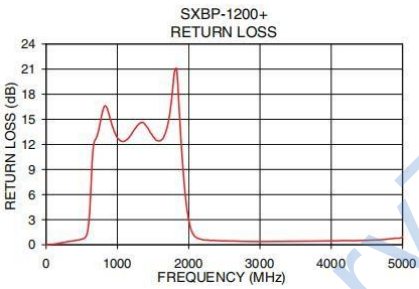
Outline Drawing

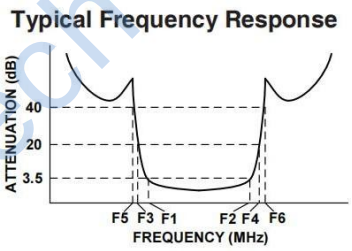


Outline Dimensions: Unit (mm)					
A	11.18	D	5.08	G	1.02
B	18.80	E	1.78	H	16.76
C	4.83	F	1.52	J	5.08
L	1.40	M	1.52	K	11.94
wt		3.0g			

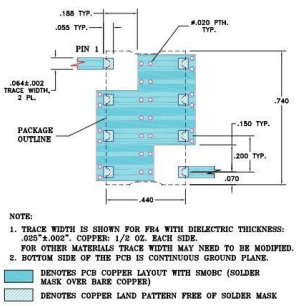








Suggested PCB Layout



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