HenryTech

Bandpass Filter

HT-SXBP-178+

50Ω 170 to 186 MHz

Features
- excellent rejection
- flat group delay @ passband
- good VSWR, 1.2:1 typ.@ passband

Applications
- receivers / transmitters
- CDMA base station

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

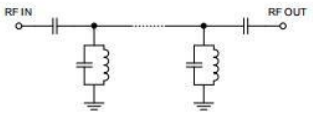
CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 3dB) F1 - F2	STOPBAND (MHz) (Loss>20dB) F3	F4	(Loss>40dB) F5	F6	VSWR Passband Typ.	Stopband Typ.
178	170-186	150	210	135	240-2000	1.5	20

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

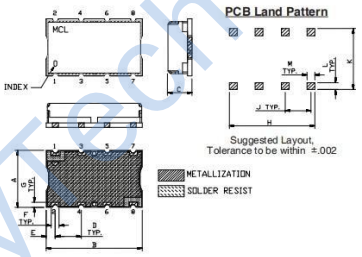


Typical Performance Data at 25℃

Frequency (MHz)	Insertion Loss (dB) ẋ	σ	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
1.0	93.03	6.18	0.42	165.0	50.93
135.0	49.78	0.49	0.17	167.0	44.46
150.0	30.67	0.60	0.45	168.0	42.70
159.0	14.09	0.83	1.92	169.0	38.84
163.0	6.12	0.61	7.06	170.0	37.33
170.0	2.48	0.05	24.26	171.0	35.17
178.0	2.23	0.01	22.44	173.0	33.34
186.0	2.61	0.04	17.52	174.0	32.76
191.0	4.41	0.45	8.71	176.0	31.77
194.0	8.32	0.79	3.64	178.0	31.49
199.0	16.45	0.74	1.46	179.0	31.41
210.0	29.98	0.48	0.64	181.0	31.89
240.0	50.04	0.21	0.28	182.0	31.73
400.0	83.79	1.77	0.11	183.0	32.15
900.0	89.10	5.45	0.16	185.0	33.62
1200.0	76.91	0.98	0.22	186.0	34.56
1600.0	66.71	0.70	0.28	188.0	38.47
2000.0	60.95	1.70	0.32	190.0	43.45

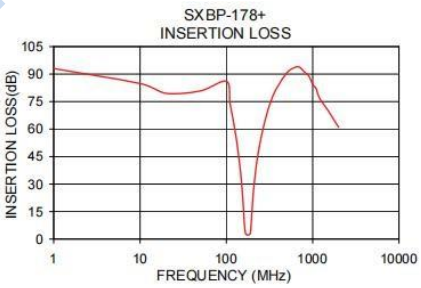
INPUT	1
OUTPUT	8
GROUND	2,3,4,5,6,7

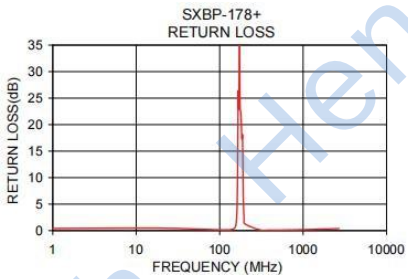
Outline Drawing

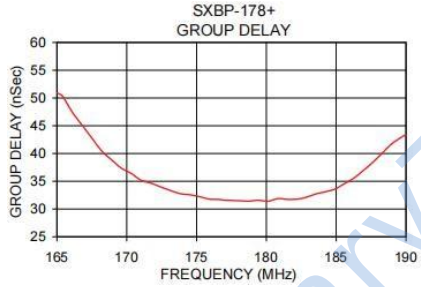


Outline Dimensions: Unit (mm)

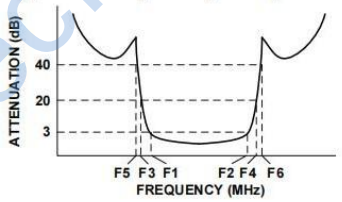
A	11.18	D	5.08	G	1.02
B	18.80	E	1.78	H	16.76
C	6.86	F	1.52	J	5.08
L	1.40	M	1.52	K	11.94
wt		3.0			



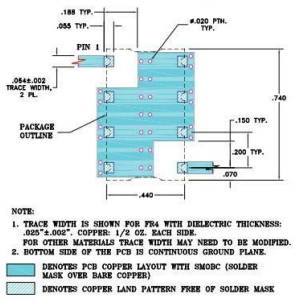




Typical Frequency Response



Demo Board MCL P/N: TB-368
Suggested PCB Layout (PL-230)



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