HenryTech

Bandpass Filter

HT-SXBP-169+

50Ω 164 to 174 MHz

Features
- high rejection
- good VSWR, 1.3:1 typ @ passband
- aqueous washable

Applications
- radio link
- receivers / transmitters
- professional mobile radio / public access mobile radio (PMR/ PAMR)

Maximum Ratings

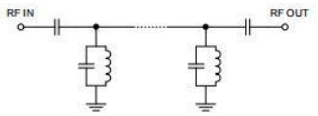
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	0.5W max.

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

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

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 3dB) F1 - F2	STOPBAND (MHz) (Loss>20dB) F3	F4	(Loss>40dB) F5	F6	VSWR Passband Typ.	Stopband Typ.
169	164-174	137	205	122	240-2500	1.3	18

Functional Schematic



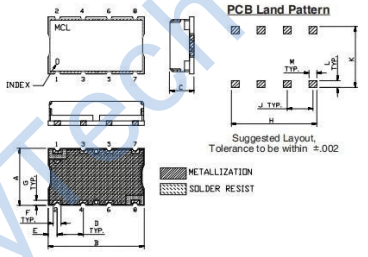
Pad Connections

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

Typical Performance Data at 25℃

Frequency (MHz)	Insertion Loss (dB) x̄	σ	Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
1.0	82.10	2.30	0.38	155.0	41.11
110.0	62.23	0.84	0.15	156.0	38.37
122.0	50.32	0.82	0.15	158.0	34.97
126.0	45.85	0.92	0.17	160.0	32.58
137.0	31.35	1.24	0.40	161.0	31.67
140.0	26.73	1.37	0.53	162.0	31.02
150.0	7.41	1.62	5.90	163.0	30.49
152.0	4.56	1.09	12.24	164.0	30.13
164.0	2.04	0.03	18.54	165.0	29.92
169.0	2.00	0.02	20.31	166.0	29.86
174.0	2.28	0.07	14.37	167.0	29.85
185.0	7.34	1.60	3.16	168.0	29.85
190.0	15.14	1.79	1.33	169.0	29.87
205.0	31.92	1.00	0.52	170.0	29.85
240.0	51.59	0.57	0.22	172.0	29.68
1000.0	79.07	3.14	0.10	174.0	30.40
2000.0	60.93	0.84	0.32	175.0	31.30
2500.0	52.98	0.33	0.37	180.0	42.56

Outline Drawing

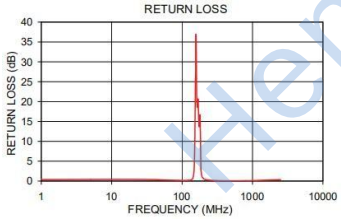


Outline Dimensions：Unit (mm)

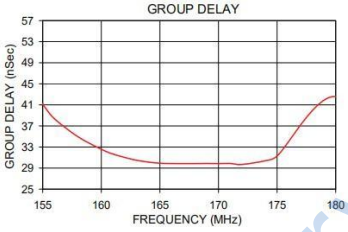
A	11.18	D	5.08	G	1.02
B	18.80	E	1.78	H	16.76
C	6.86	F	1.52	J	5.08
L	1.40	M	1.52	K	11.94
wt		3.0			

SXBP-169+
INSERTION LOSS

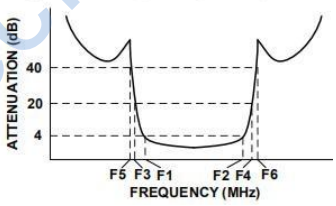
SXBP-169+
RETURN LOSS



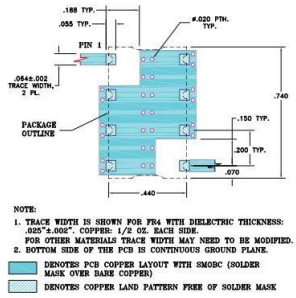
SXBP-169+
GROUP DELAY



Typical Frequency Response



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



Tel: Lee 13890694956 E-mail: HLT@henglitaitech.com