HenryTech

Bandpass Filter

HT-SXBP-375+

Features
- Flat group delay over passband
- High rejection, 50 dB typ.
- Shielded case
- Aqueous washable

Applications
- Radio link
- Receivers / Transmitters
- Harmonic rejection
- Military

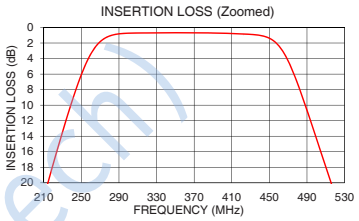
50Ω 330 to 420 MHz

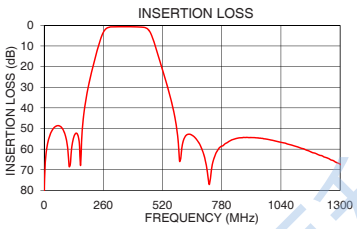
Electrical Specifications at 25°C

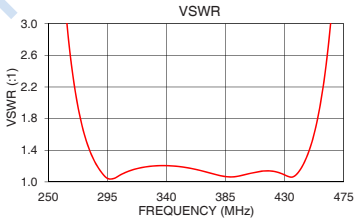
Parameter		F#	Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	-	-	-	375	-	MHz
	Insertion Loss	F1-F2	330-420	-	0.8	1.6	dB
	VSWR	F1-F2	330-420	-	1.2	1.6	: 1
Stop Band, Lower	Insertion Loss VSWR	DC-F3	DC-170	40	50	-	dB
Stop Band, Upper	Insertion Loss VSWR	F4-F5	580-1300	40	50	-	dB

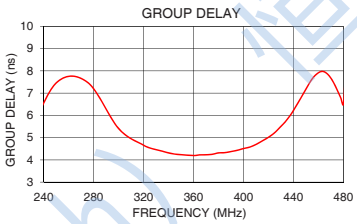
Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	80.44	267.26	330	4.46
50	49.02	386.04	335	4.39
100	56.75	334.07	340	4.31
170	47.56	129.64	345	4.26
195	29.28	77.56	350	4.24
215	19.74	46.09	355	4.22
260	3.42	3.85	360	4.20
330	0.69	1.20	365	4.23
350	0.68	1.19	370	4.23
375	0.69	1.10	375	4.25
400	0.74	1.09	380	4.32
420	0.82	1.14	383	4.31
466	3.39	3.17	385	4.33
516	20.12	23.65	390	4.37
544	30.58	30.65	395	4.43
580	48.21	34.14	400	4.51
800	57.09	38.44	405	4.58
1000	55.65	51.25	410	4.69
1200	62.47	58.69	415	4.85
1300	67.26	57.15	420	5.02









Maximum Ratings

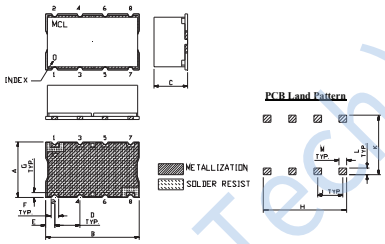
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	1 W max.

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

Pad Connections

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

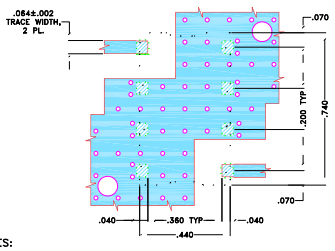
Outline Drawing



Outline Dimensions: Unit (mm)

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

Suggested PCB Layout



NOTES:
1. TRACE WIDTH IS SHOWN FOR ROGERS WITH DIELECTRIC THICKNESS .030"±.002". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

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