

## HT-SXBP-1100+



50Ω 1000 to 1200 MHz

### Features

- Fast roll-off on the upper side band
- Good matching in the pass band
- Miniature shielded package

### Applications

- Aviation and Aeronautical
- Aeronautical radio navigation
- Radar systems
- Navigation systems

### Electrical Specifications at 25°C

Parameter		F#	Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	-	-	-	1100	-	MHz
	Insertion Loss	F1-F2	1000-1200	-	1.0	2.0	dB
	VSWR	F1-F2	1000-1200	-	1.3	2.3	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC-20	20	30	-	dB
	VSWR	DC-F3	DC-20	-	20	-	:1
Stop Band, Upper	Insertion Loss	F4-F5	1500-2200	20	29	-	dB
	VSWR	F4-F5	1500-2200	-	20	-	:1

### Maximum Ratings

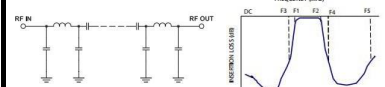
Operating Temperature -40°C to 85°C

Storage Temperature -55°C to 100°C

RF Power Input\* 2W max.

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

### Functional Schematic Typical Frequency Response



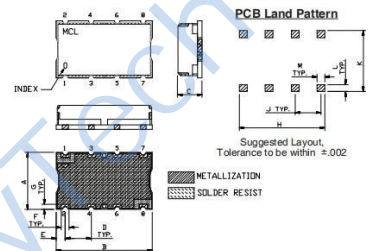
### Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	57.02	1737.18	1000	1.75
5	43.13	1737.18	1020	1.78
20	31.10	1737.18	1030	1.80
70	20.52	347.44	1040	1.81
150	14.93	91.43	1050	1.83
600	7.38	15.00	1060	1.86
750	3.59	5.83	1070	1.89
830	1.54	2.79	1080	1.92
880	0.76	1.76	1090	1.96
1000	0.50	1.26	1100	1.99
1100	0.56	1.25	1110	2.03
1200	0.77	1.20	1120	2.08
1235	1.46	1.90	1130	2.13
1265	3.43	3.87	1140	2.18
1300	7.58	9.58	1150	2.24
1360	15.82	26.33	1160	2.32
1400	20.90	36.20	1170	2.41
1500	31.84	51.10	1180	2.51
1750	43.02	69.49	1190	2.64
2200	54.70	78.97	1200	2.79

### Pad Connections

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

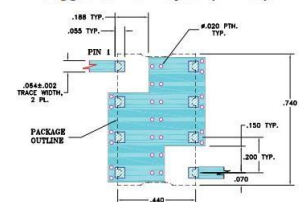
### Outline Drawing



### 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				

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



- NOTE:
1. TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS: .005"±.000" 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 SMDSC (SOLDER MASK OVER BARE COPPER)
  - DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

