

High Pass Filter

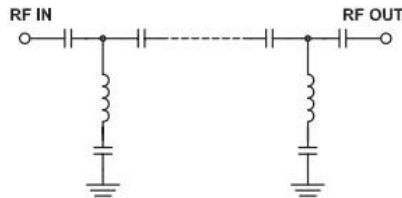
Features

- Low insertion loss
- High rejection
- Miniature shielded package

Applications

- SATCOM
- Broadband Fiber Networks
- CATV
- Radio communications
- Receivers / transmitters

Functional Schematic



JY-SXHP-108+



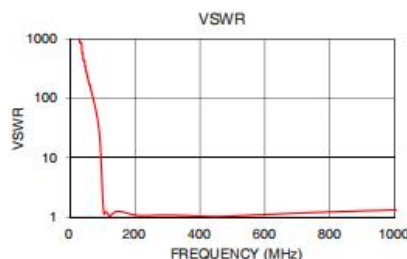
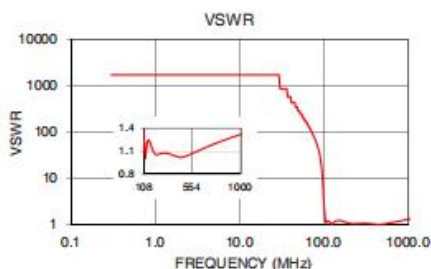
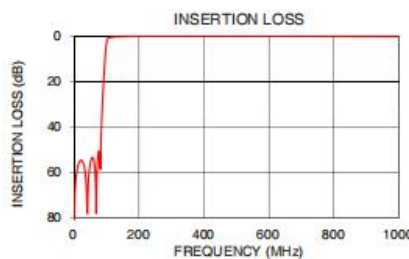
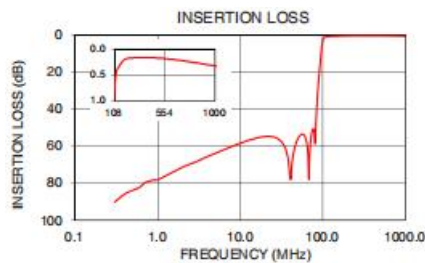
50Ω 108 to 1000 MHz

Electrical Specifications at 25°C

Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Stop Band	Rejection Loss VSWR	DC-85	20	30	-	dB
		DC-85	-	20	-	:1
Pass Band	Insertion Loss VSWR	108-1000	-	1.0	2.5	dB
		108-1000	-	1.3	1.92	:1

Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
0.3	90.11	1737.18
78.0	50.95	69.49
85.0	37.44	44.55
91.0	20.05	24.14
95.0	10.94	11.09
98.0	5.42	4.64
101.0	2.26	1.98
108.0	0.87	1.19
121.0	0.49	1.03
200.0	0.20	1.08
300.0	0.17	1.07
400.0	0.17	1.03
490.0	0.18	1.03
560.0	0.19	1.07
650.0	0.21	1.13
700.0	0.22	1.16
750.0	0.24	1.19
800.0	0.26	1.22
900.0	0.29	1.27
1000.0	0.33	1.32



Maximum Ratings

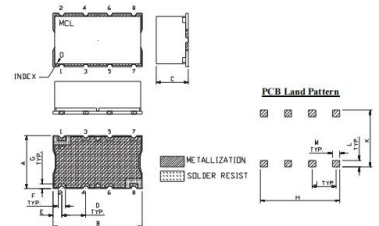
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	0.5 W max @ 25°C

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

Pad Connections

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

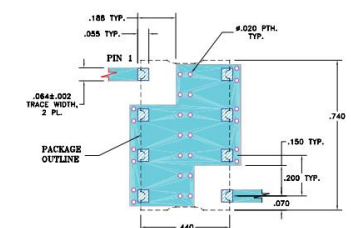
Outline Drawing



Outline Dimensions: Unit (mm)

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

Suggested PCB Layout



NOTE:

1. TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS: .003"±.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 SOLDER MASK