

Low Pass Filter

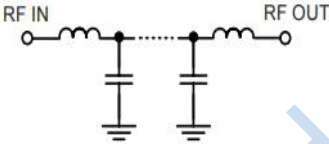
Features

- High rejection (30 dB typical)
- Sharp cut-off
- Aqueous washable
- Miniature shielded package

Applications

- Receivers/transmitters
- Defense communications
- Harmonic rejection

Functional Schematic



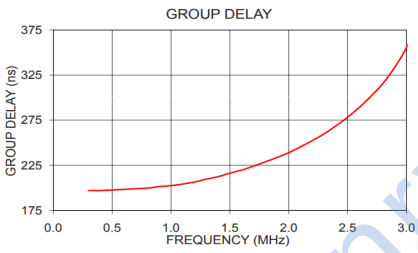
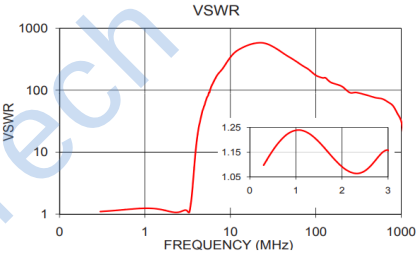
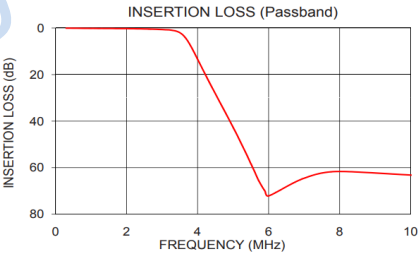
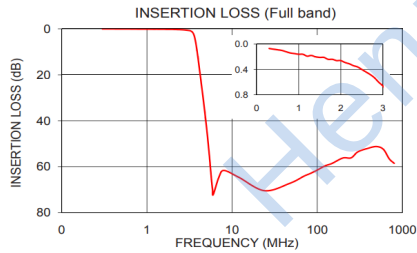
HT-SXLP-3+



50Ω DC to 3 MHz

Electrical Specifications at 25°C

Parameter		Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Insertion Loss	DC-3	-	0.8	1.5	dB
	Freq. Cut-Off	3.5	-	3.5	-	dB
	VSWR	DC-3	-	1.2	1.6	:1
Stop Band	Rejection Loss	4.6-800	20	30	-	dB
	VSWR	4.6-800	-	35	-	:1



Maximum Ratings

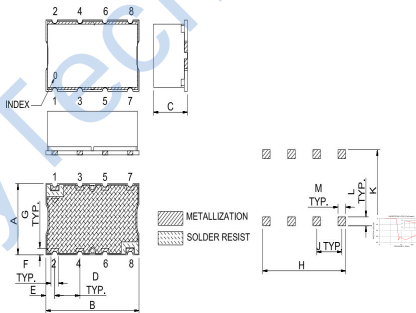
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	0.5W Max. @ 25°C

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

Pin Connections

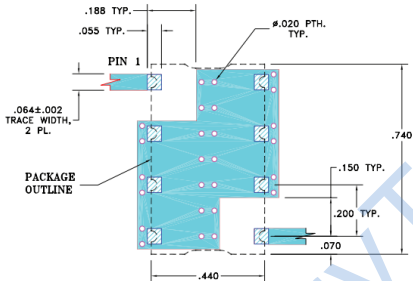
INPUT	1
OUTPUT	8
GROUND	2,3,4,5,6,7

Outline Drawing



Suggested Layout Tolerance to be within ±0.5

Suggested PCB Layout



NOTE:
1. TRACE WIDTH IS SHOWN FOR FR4 WITH DIELECTRIC THICKNESS: .025"±.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

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	0.3g		