



# 12500 MHz Suspended Stripline Low Pass Filter

Part Number: AE12500SSL1055



## Electrical Specifications

**Cut Off Frequency:** 12.5GHz  
**Pass Band Frequency:** DC~12.5GHz  
**Pass Band Insertion Loss:**  
 $\leq 1.0\text{dB @ DC} \sim 12.2\text{GHz}$   
 $\leq 1.5\text{dB @ } 12.2 \sim 12.5\text{GHz}$   
**Pass Band VSWR:**  $\leq 1.5:1$   
**Stop Band Attenuation:**  $\geq 50\text{dB @ } 13.7 \sim 20\text{GHz}$   
**Impedance:** 50 Ohms  
**Power Handling:**  $\leq 15\text{W}$

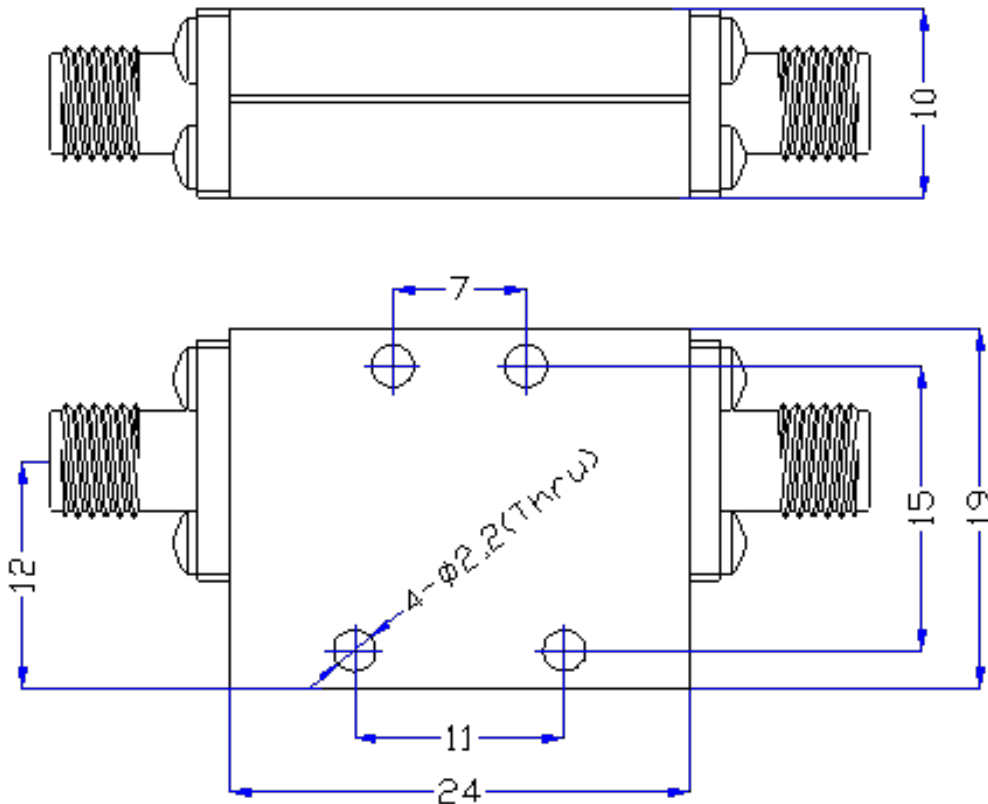
## Mechanical

**Mounting Method:** Through Holes  
**Connector Type:** SMA-Female  
**Dimensions:** 24 x 19 x 10 mm

## Environmental

**Operating Temperature:**  $-45^\circ$  to  $+85^\circ$  C  
**Storage Temperature:**  $-55^\circ$  to  $+95^\circ$  C  
**Shock:** 20 G. 11ms  
**Vibration:** 20 G. 5 to 200 Hz

## Outline Drawing:



2 decimal places:  $\pm 0.01$  inches [ $\pm 0.3\text{mm}$ ]

3 decimal places:  $\pm 0.005$  inches [ $\pm 0.13\text{mm}$ ]

Angles:  $\pm 1$  Deg.

When max dimensions are called out the above tolerances do not apply as long as it is under the max call out.