



**ANATECH ELECTRONICS INC**  
RF & Microwave Filters & Products

# 9100 MHz Cavity Band Pass Filter

**Part Number: AE9100B12034**



## Electrical Specifications

**Center Frequency:** 9100 MHz  
**Passband:** 7500 – 10700 MHz  
**Insertion Loss:** 1.5 dB Max.  
**Return Loss:** 15 dB Min  
**Rejection:** 60 dB Min @ DC–7100 MHz  
**Rejection:** 30 dB Min @ 7300 MHz  
**Rejection:** 40 dB Min @ 10900 MHz  
**Rejection:** 60 dB Min @ 11000–11500 MHz  
**Rejection:** 90 dB Min @ 11500–18000 MHz  
**Impedance:** 50 Ohms In/Out  
**Power Handling:** 35 W CW Max

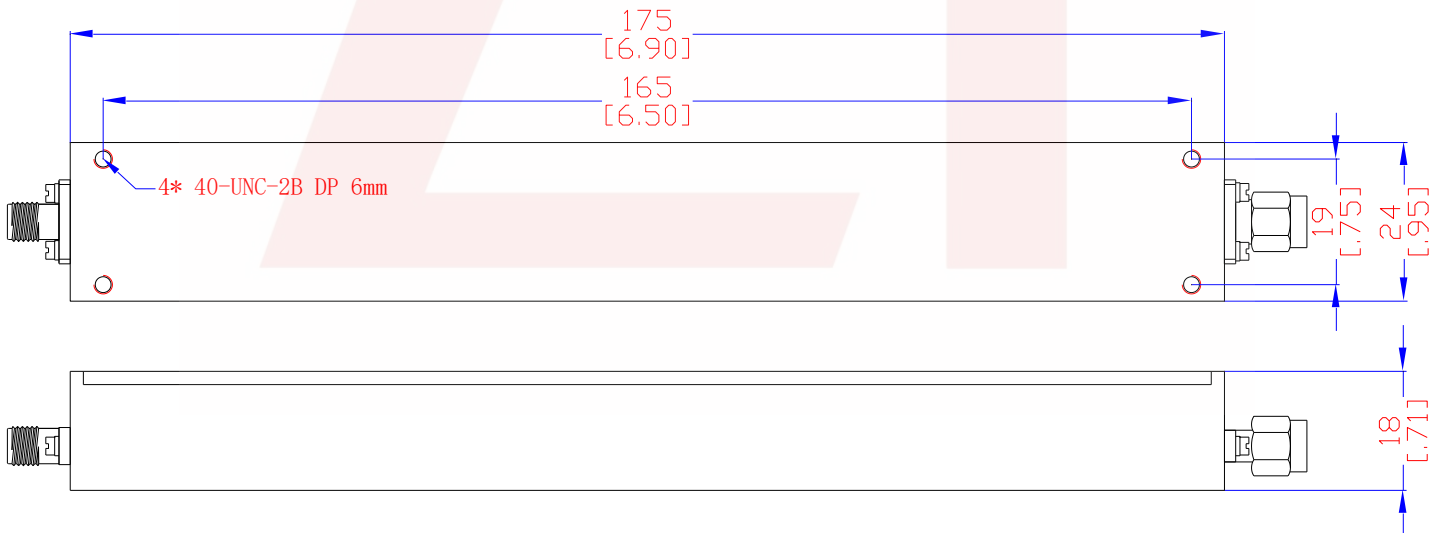
## Mechanical

**Connector Type:** SMA M/F  
**Dimensions:** 6.90 x 0.95 x 0.71 in.  
 175 x 24 x 18 mm

## Environmental

**Operating Temperature:** -40°C to +70°C  
**Storage Temperature:** -55°C to +85°C  
**Shock:** 20 G. 11ms  
**Vibration:** 20 G. 5 to 200Hz

## Outline Drawing:



Tolerance: +/-0.01 inches [ +/- 0.3mm]

Angles: +/- 1 Deg.

\*Tolerance as shown unless otherwise specified in the datasheet electrical specification tables above.

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

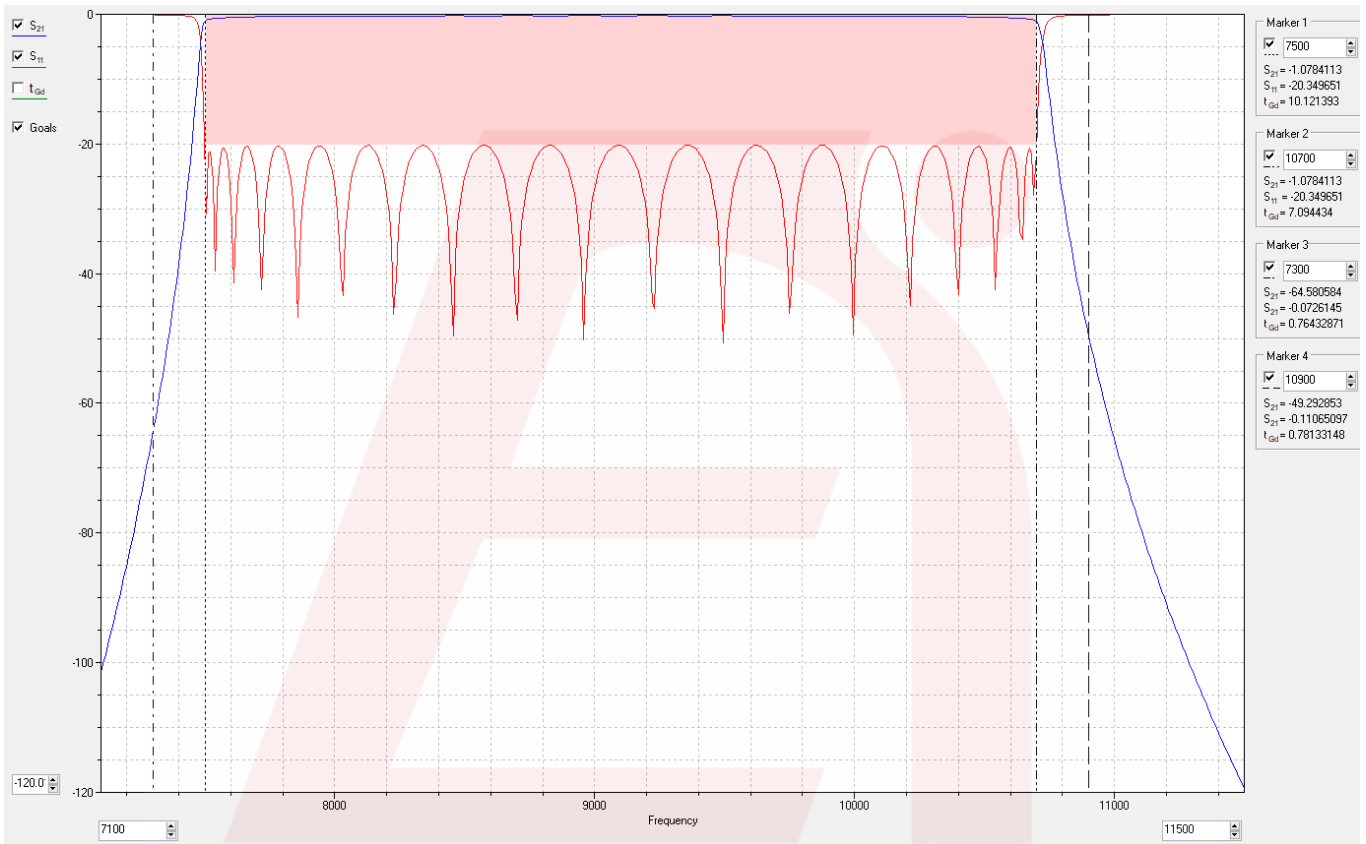
DS-B12034-09212023-Rev0

**70 Outwater Lane Phone: (973) 772-4242**  
**Garfield, NJ 07026 Fax : (973) 321-3941**

**Email: [sales@anatechelectronics.com](mailto:sales@anatechelectronics.com)**  
**Web: [www.anatechelectronics.com](http://www.anatechelectronics.com)**



### Simulated Plot:



Note: This is a simulation Plot. Actual response plot might differ.