



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

# 1975 MHz Cavity Band Pass Filter

**Part Number: AE1975B11725**



## Electrical Specifications

**Center Frequency:** 1975 MHz  
**Bandwidth:** 750 MHz  
**Passband:** 1600-2350 MHz  
**Passband Insertion Loss:** 0.6 dB Typ, 0.7dB Max  
**Passband Flatness:** 0.6dB Max.  
**Passband Return Loss:** 12.0 dB Min.  
**Rejection1:** 40 dB Min @ 1550 MHz  
**Rejection2:** 40 dB Min @ 2400 MHz  
**Power Handling:** 50 W CW Max  
**Input/output Impedance:** 50 Ohms

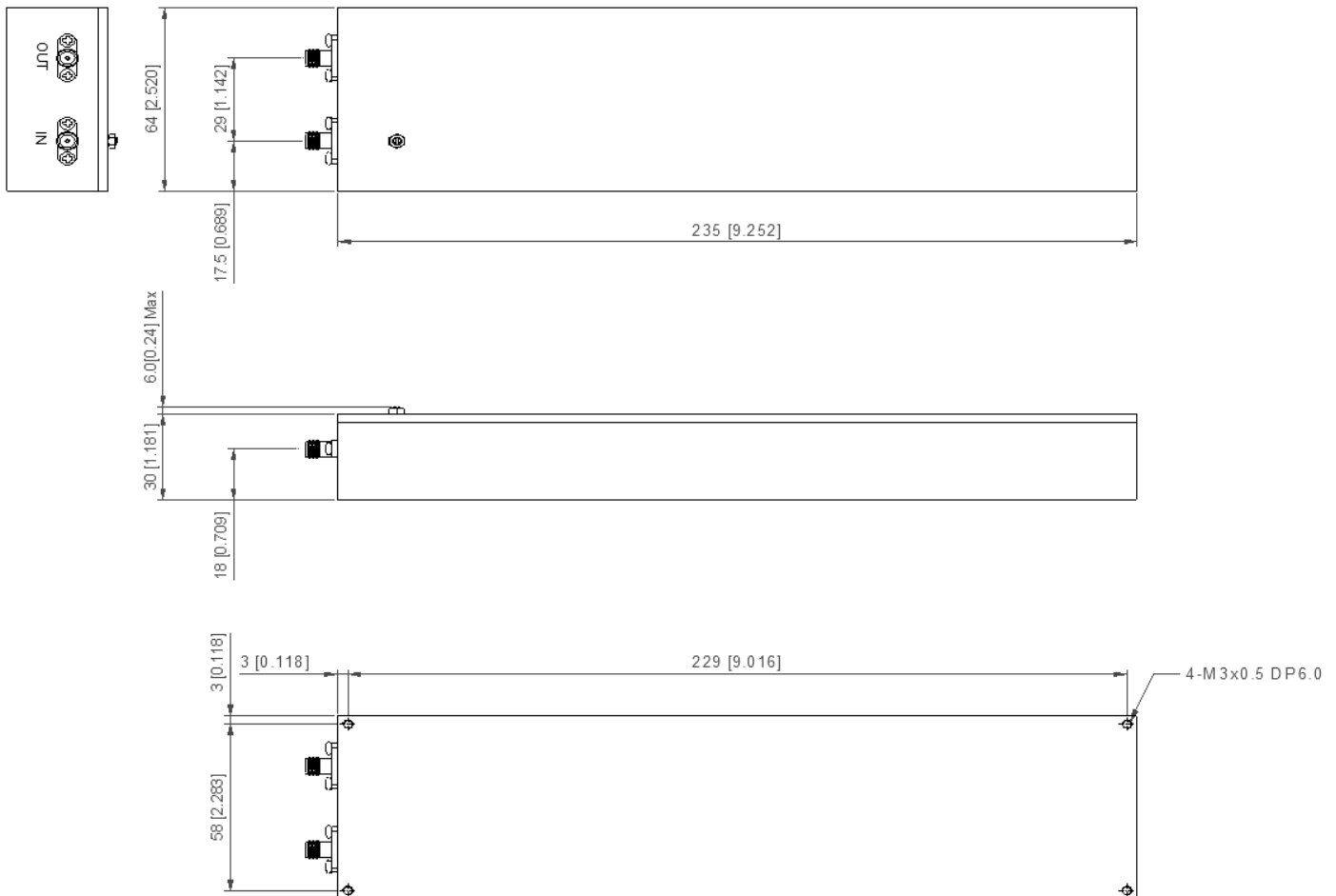
## Mechanical

**Mounting Method:** Threaded Holes  
**Connector Type:** SMA(F)  
**Dimensions:** 235 X 64 x 30 mm.  
**Dimensions:** 9.252 X 2.52 x 1.181 in.

## Environmental

**Operating Temperature:** -10°C to +60°C  
**Storage Temperature:** -45°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.

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

**Email: [sales@anatechelectronics.com](mailto:sales@anatechelectronics.com)**  
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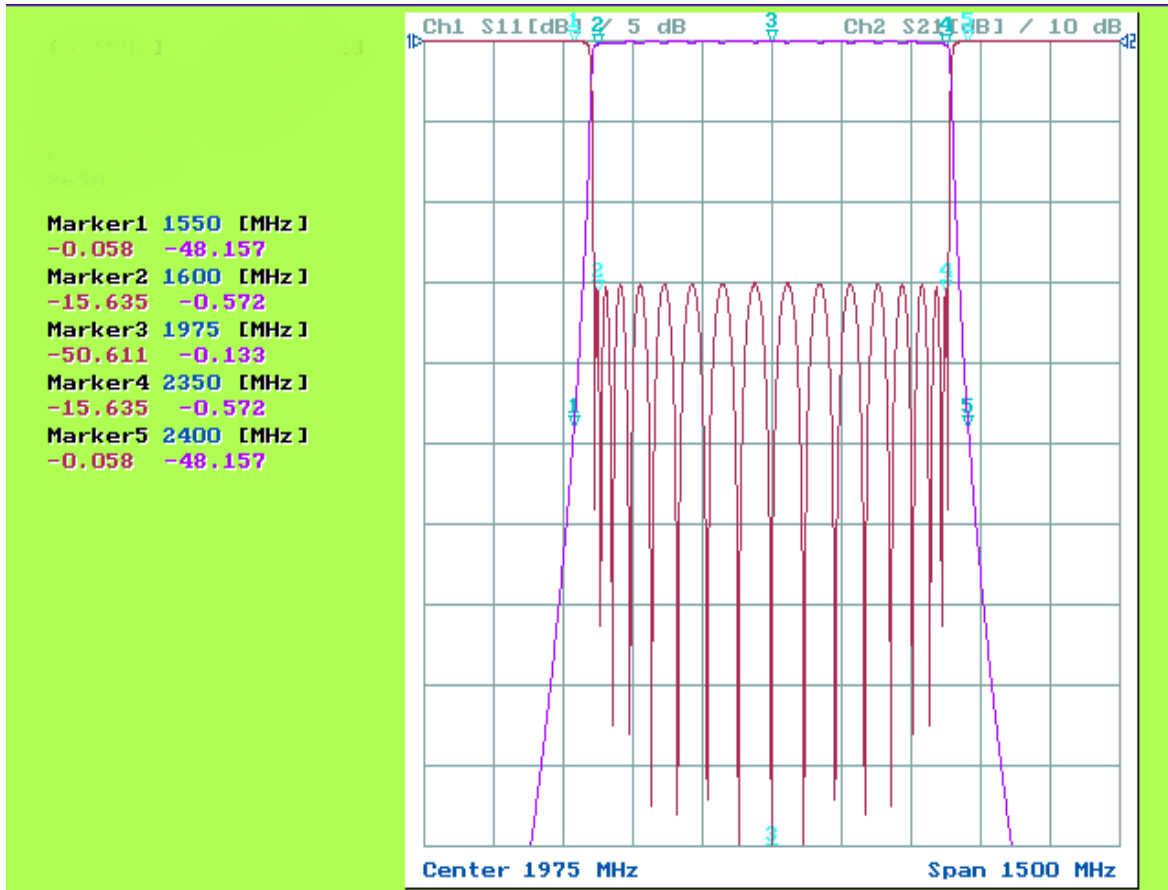
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## Simulation Plot:



Note: This is a simulated response plot. Actual performance might differ.

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