



**Electrical Specifications**

**Pass Band:** 3.0 dB @ 514-547 MHz  
0.5 dB @ 521-539 MHz  
**Insertion Loss:** 4.5 dB @ 530 MHz  
**In/Out VSWR:** 1.50:1 Max @ 521-539 MHz  
**Stopband:** 10 dB @ 500 and 565 MHz  
20 dB @ 495 and 575 MHz  
30 dB @ 485 and 585 MHz  
40 dB @ 475 and 610 MHz  
60 dB @ 450 and 655 MHz  
**Ripple:** 0.5 dB over pass band  
**Phase Linearity:**  $\pm 1.0^\circ$  from 525-535 MHz  
Deviation from any 10 MHz segment of the 0.5 dB pass band shall not exceed  $\pm 1.5^\circ$ .

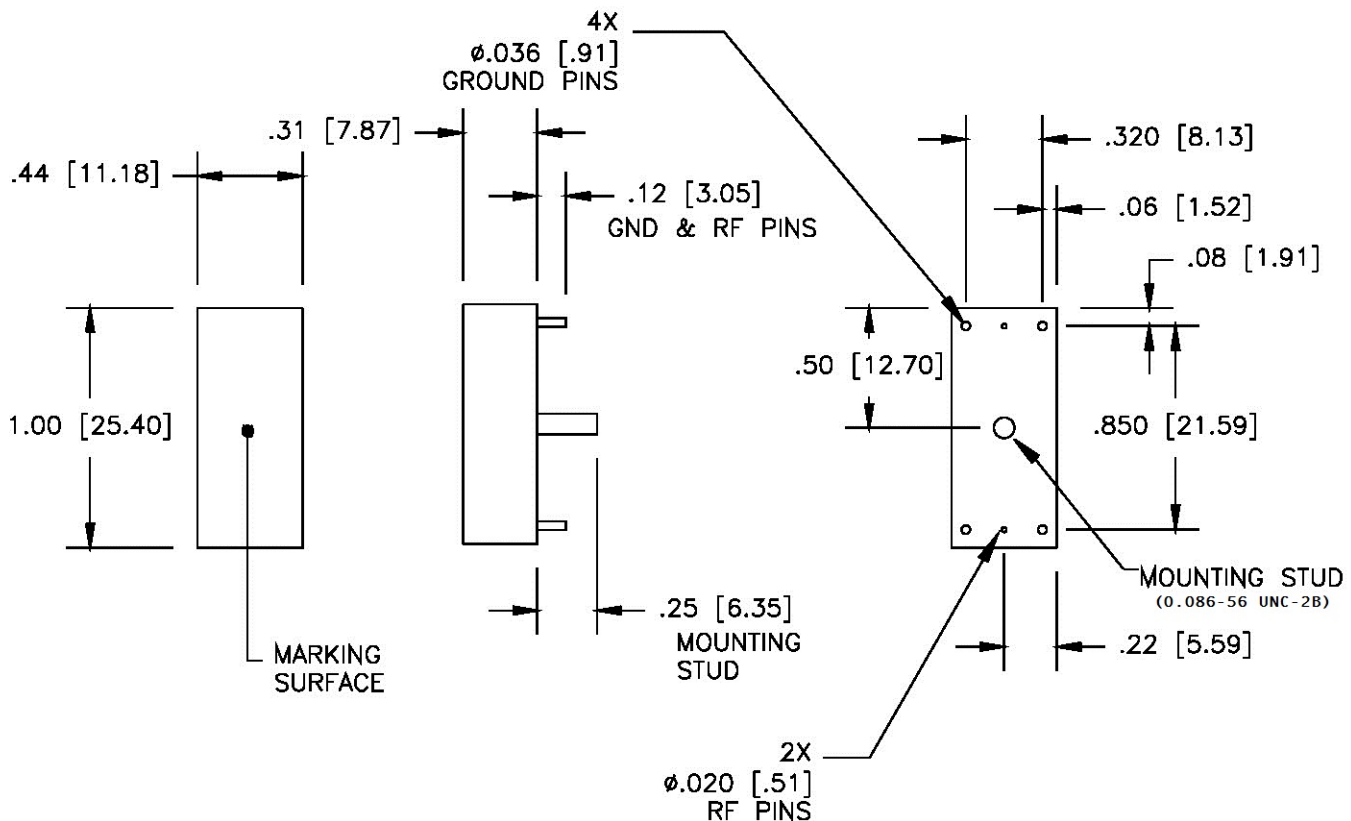
**Mechanical**

**Connector Type:** RF Pins  
**Dimensions:** 1.00 x 0.44 x 0.31 Inches

**Environmental**

**Operating Temperature:** -30 to +85° C  
**Storage Temperature:** -40 to +95° C  
**Shock:** 20 G. 11 ms  
**Vibration:** 20 G. 5 to 200 MHz

**Outline Drawing:**



2 decimal places: +/-0.01 inches [+/- 0.3mm]  
3 decimal places: +/- 0.005 inches [+/- 0.13mm]  
Angles: +/- 1 Deg.  
When max dimensions are called out the above tolerances do not apply as long as it is under the max call out.

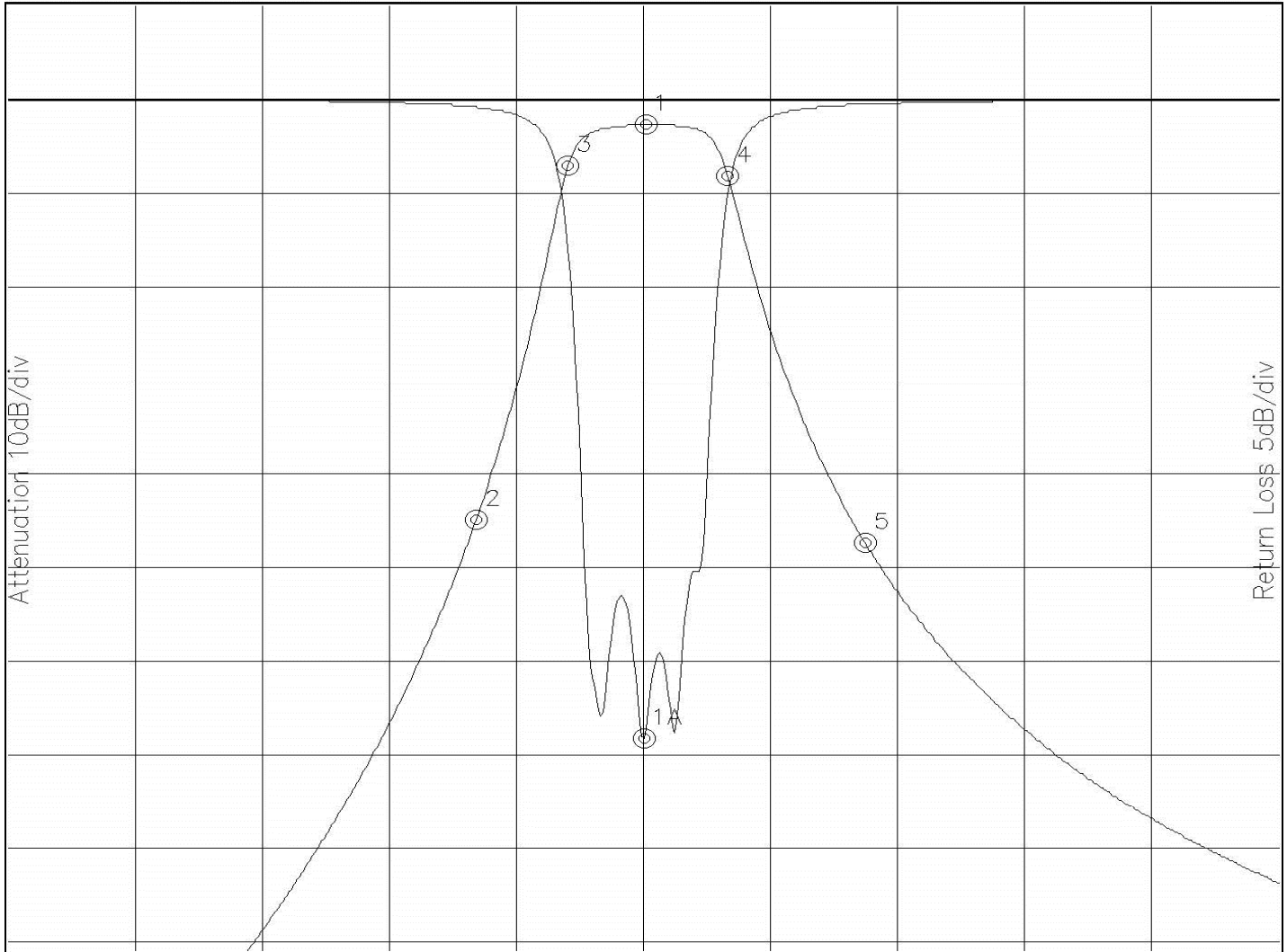


**Response Plot:**

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Attenuation/Return Loss



Attenuation Start: 400.0MHz Stop: 660.0MHz

Return Loss Start: 400.0MHz Stop: 660.0MHz

- Marker 1 Freq 530.21MHz Atten -2.611dB
- Marker 2 Freq 495.34MHz Atten -44.881dB
- Marker 3 Freq 514.24MHz Atten -7.026dB
- Marker 4 Freq 547.01MHz Atten -8.144dB
- Marker 5 Freq 575.15MHz Atten -47.236dB

Marker 1A Freq 529.79MHz Ret Loss -33.992dB

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