ANATECH ELECTRONICS INC
RF & Microwave Filters & Products

DC-14 MHz / 26-200 MHz LC Diplexer

Part Number: AE7-113DB5402

ISO 9001 REGISTERED FIRM

Electrical Specifications

Pass Band (Low) Nom: 3 dB C/O (Crossover) ≤ 20 MHz
Pass Band (High) Nom: 3 dB C/O (Crossover) ≤ 20 MHz
Insertion Loss: 1.0 dB @ DC-14 MHz (Low)
1.5 dB @ 26-200 MHz (High)
VSWR: 1.50:1 @ DC-14 MHz (Low)
2.0:1 @ 26-200 MHz (High)
Stopbands: 20 dB @ 18 MHz (Low)
30 dB @ 19 MHz (Low)
40 dB @ 20 MHz (Low)
50 dB @ 22.5 MHz (Low)
60 dB @ 24-100 MHz (Low)
Amplitude Ripple: 1 Cycle Max 6-14 MHz (Low)
Phase Linearity: ±12.5° Max @ 6-14 MHz (Low)
Phase Ripple: 2 Cycles Max 6-14 MHz (Low)

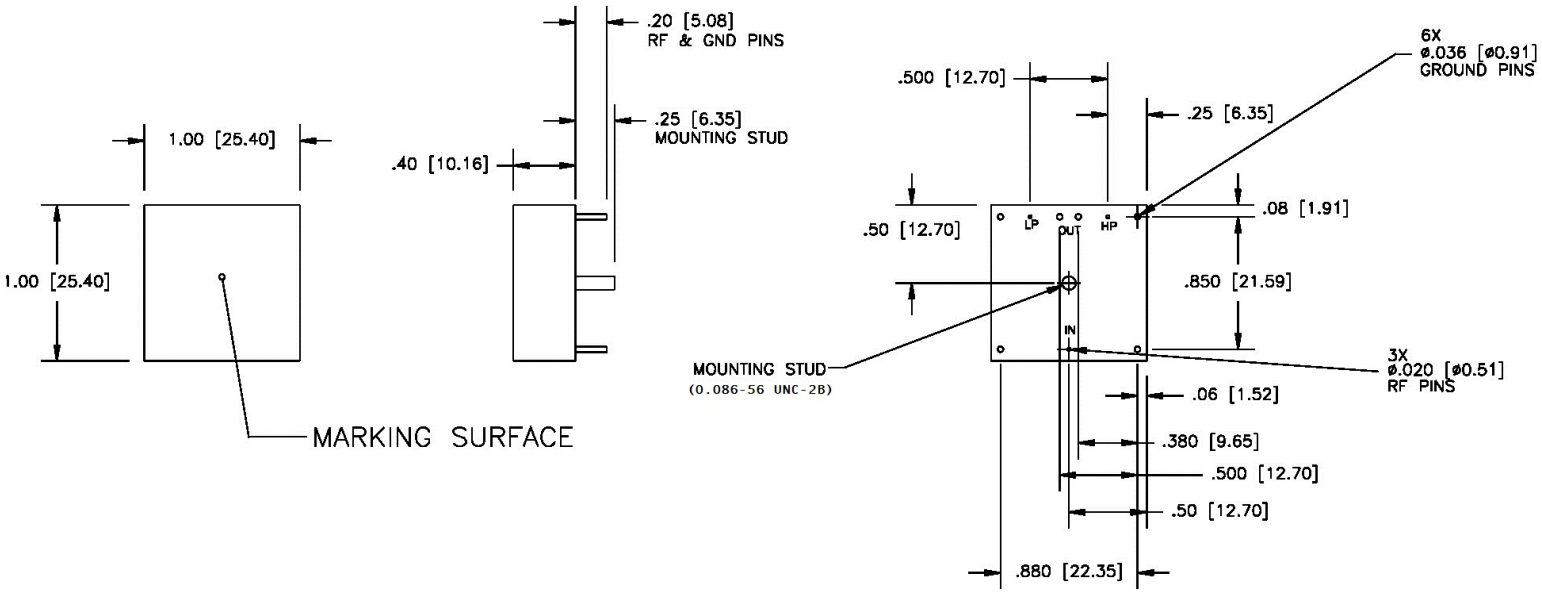
Mechanical

Connector Type: RF Pins
Dimensions: 1.0 x 1.0 x 0.40 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:



70 Outwater Lane Phone: (973) 772-4242
Garfield, NJ 07026 Fax : (973) 321-3941
Email: sales@anatechelectronics.com
Web: www.anatechelectronics.com

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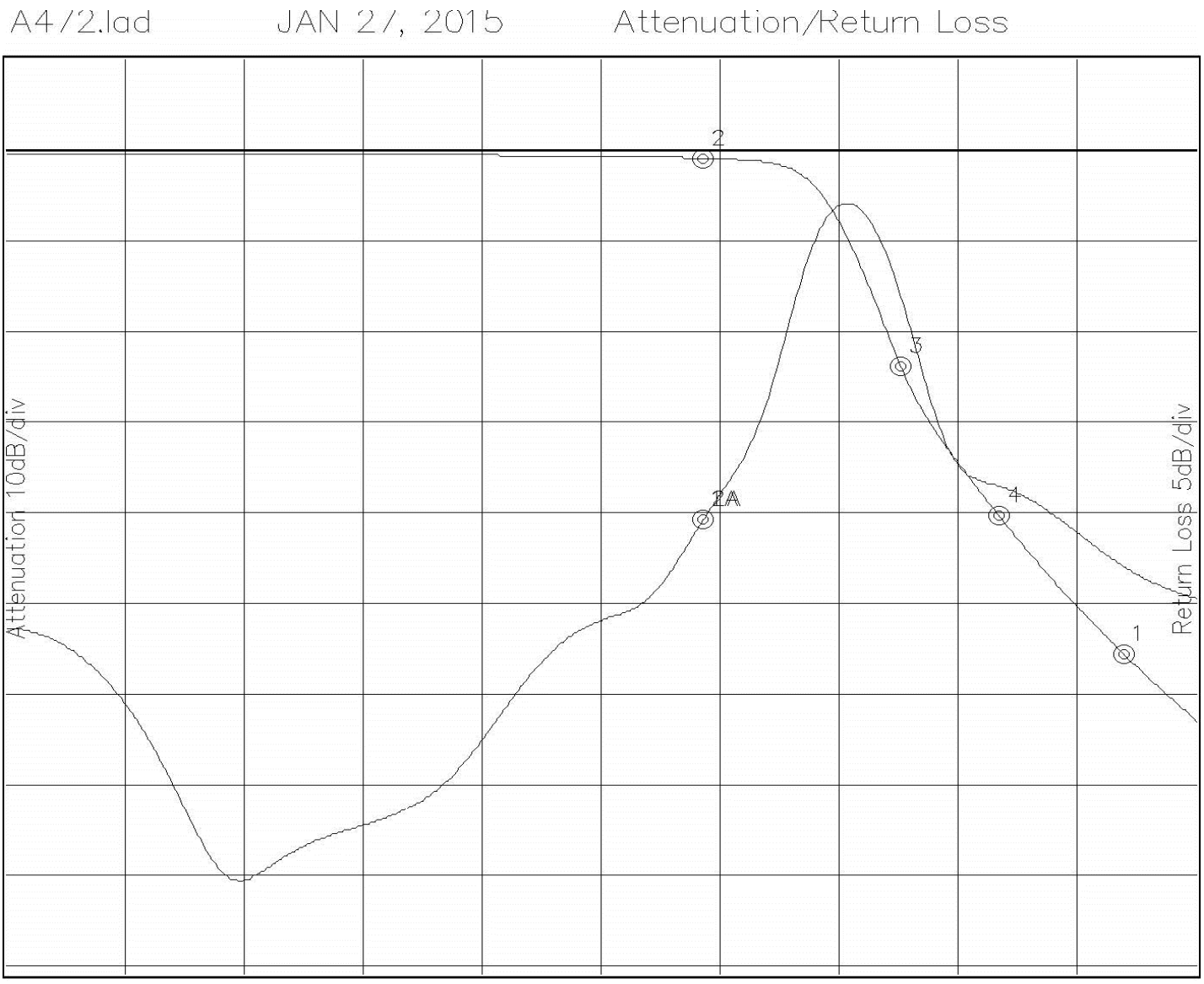
Response Plot:



Attenuation Start: 0.002Hz Stop: 24.0MHz

Return Loss Start: 0.002Hz Stop: 24.0MHz

Marker 1 Freq 22.527MHz Atten −55.406dB

Marker 2 Freq 14.036MHz Atten −0.823dB

Marker 3 Freq 18.029MHz Atten −23.745dB

Marker 4 Freq 20.006MHz Atten −40.201dB

Marker 1A Freq 14.036MHz Ret Loss −20.328dB

Marker 2A Freq 14.036MHz Ret Loss −20.328dB

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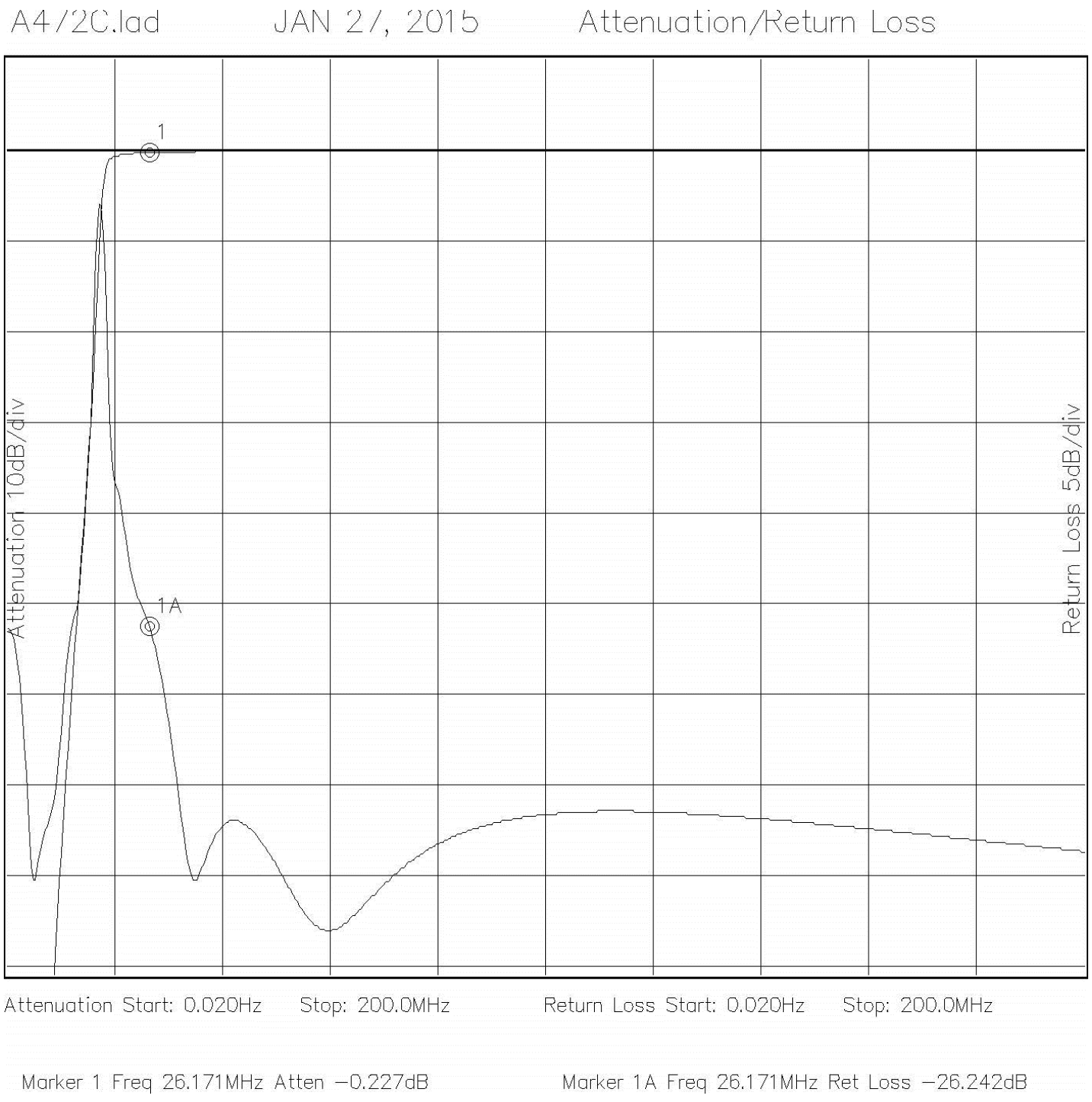

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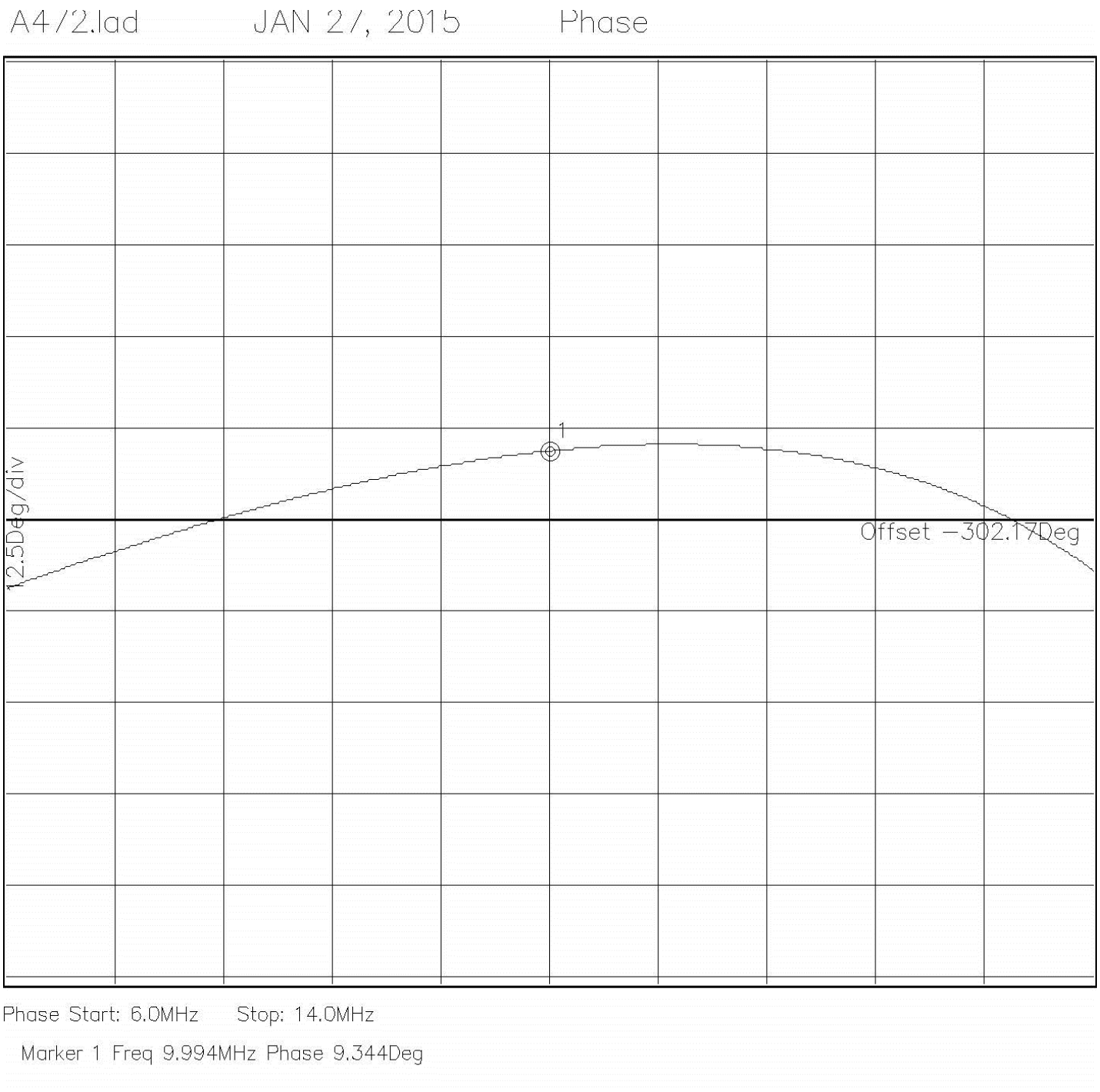

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