



A.H. Systems, Inc.

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www.AHSystems.com

SAS-582

Standard Gain Horn Antenna

2.60 GHz – 3.95 GHz

This Standard gain horn antenna has medium gain, low VSWR, and a constant antenna factor; excellent for both immunity and emissions testing.



Frequency Range: 2.60 GHz – 3.95 GHz

Antenna Factor: 25.4 dB/m

Gain: 15.1 dBi

Maximum Continuous
Power: 250 Watts

Max Radiated Field: 500 V/m

Beamwidth E-plane: 28°

Beamwidth H-plane: 29°

Impedance: 50 Ω

VSWR: 1.25:1 (1.5:1 max)

Connector: WR-284 to N-Type female adapter

Features

- Frequency Range of 2.60 GHz to 3.95 GHz
- Linearly Polarized High Gain, Low VSWR
- Individually Calibrated at 1 and 3 Meter Horizontal Polarity
- Attached Tripod Mounts for Horizontal and Vertical Mounting
- Three year Warranty

The Standard Gain Horn Antennas are designed specifically for utilization in emissions and immunity testing over the frequency range of 1 to 40 GHz. Each antenna is linearly polarized and has medium gain, low VSWR, and a constant antenna factor. The Standard Gain Horn performance is very precise and predictable through design parameters. Comparisons of measured versus computed antenna factors and gain have been shown to be +/- .5 dB. Therefore, the antenna is considered to be a standard reference, similar to that of a resonant dipole below 1 GHz. The coax-to-waveguide adapter is the only power-limiting component on the antenna and can be removed if high fields are desired. Each Standard Gain Horn comes with a tripod mount that adapts to any tripod with 1/4-20 male threads. Horizontal and vertical polarization is obtained by rotating the antenna on the tripod.

Recommended Accessories

- ATU-510 (Antenna Tripod Unit, Wooden)
- AEH-510 (Azimuth and Elevation Head)
- SAC-18G-3 (3 Meter Low Loss Cable)



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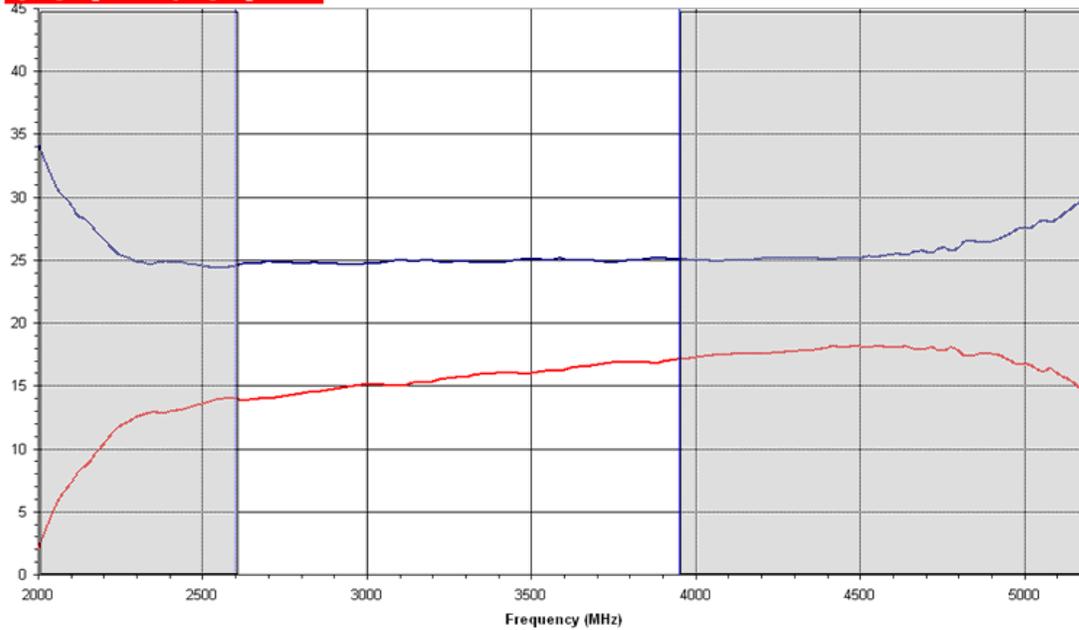


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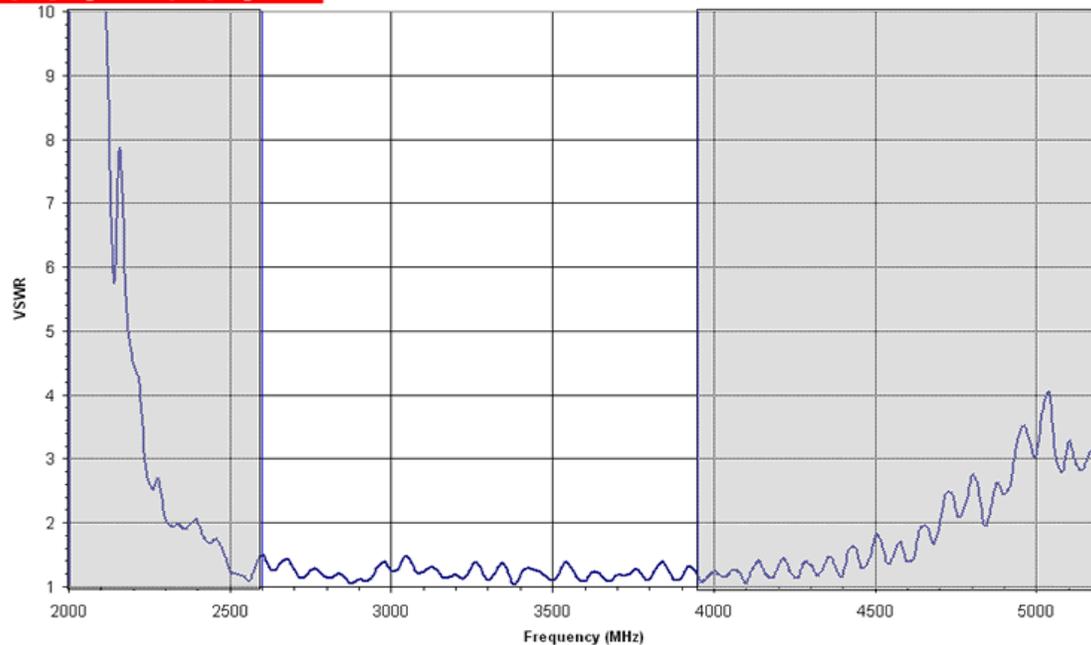
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Antenna Data
1 Meter horizontal Polarity
Model: SAS-582



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Antenna VSWR
Model: SAS-582





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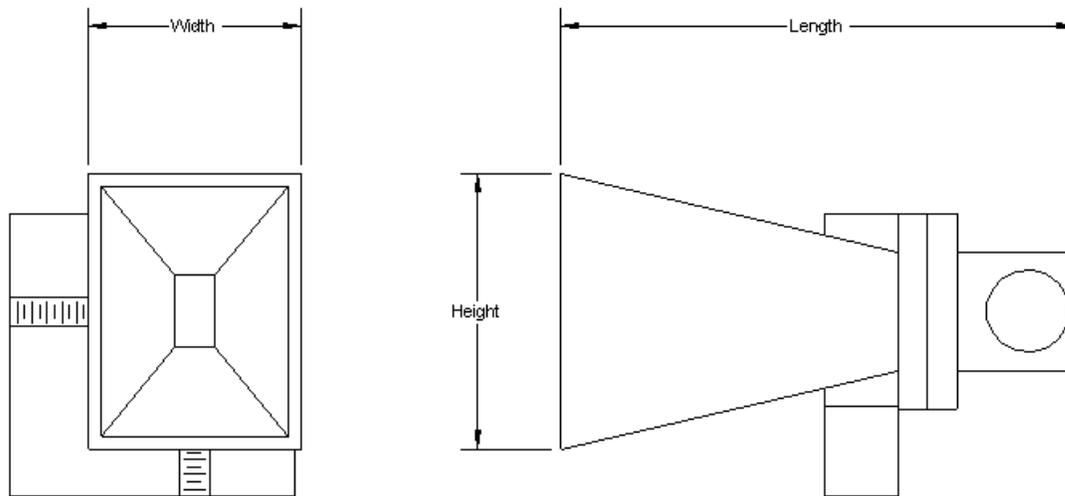


Figure 1 – SAS-582 (Horizontal Polarization)

Physical Dimensions:

Length: 17.9 in. (45.5 cm)

Width: 6.0 in. (15.2 cm)

Height: 8.1 in. (20.6 cm)

Weight: 4.8 lb.'s (2.17 kg)