



## A.H. Systems, Inc.

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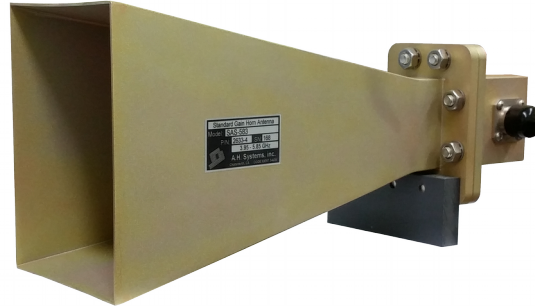
www.AHSystems.com

## SAS-583

### Standard Gain Horn Antenna

3.95 GHz – 5.85 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: 3.95 GHz – 5.85 GHz

Antenna Factor: 29.2 dB/m

Gain: 14.5 dBi

Maximum Continuous Power: 250 Watts

Max Radiated Field: 500 V/m

Beamwidth E-plane: 29°

Beamwidth H-plane: 29°

Impedance: 50 Ω

VSWR: 1.35:1 (1.6:1 max)

Connector: WR-187 to N-Type female adapter

### Features

- Frequency Range of 3.95 GHz to 5.85 GHz
- Linearly Polarized High Gain, Low VSWR
- Individually Calibrated
- 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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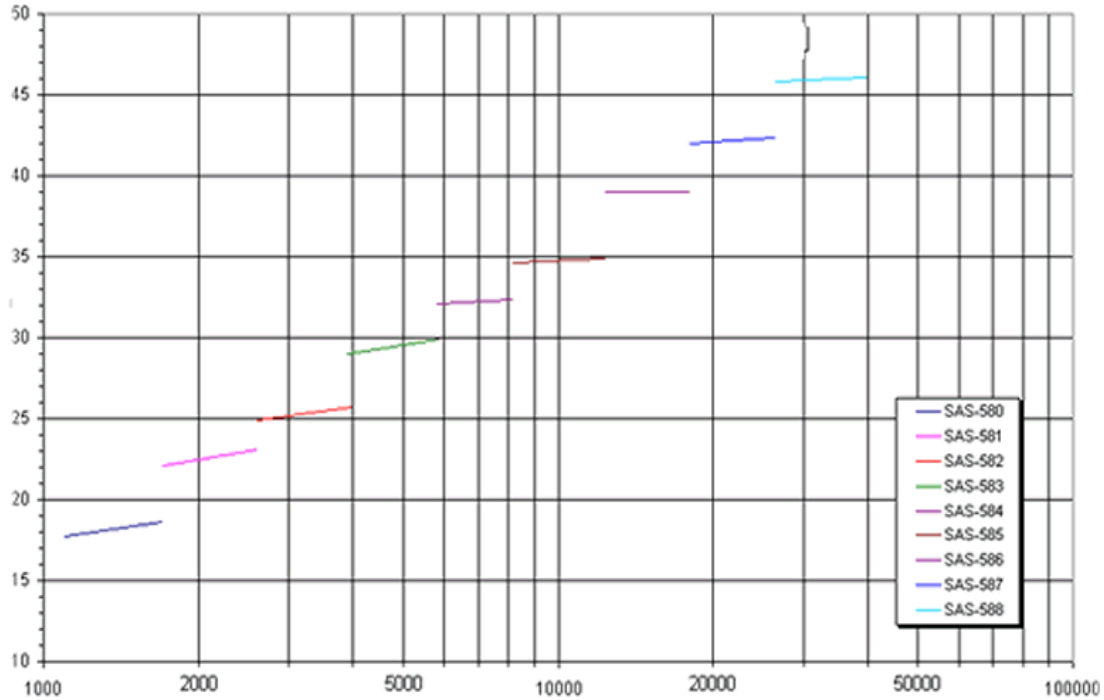
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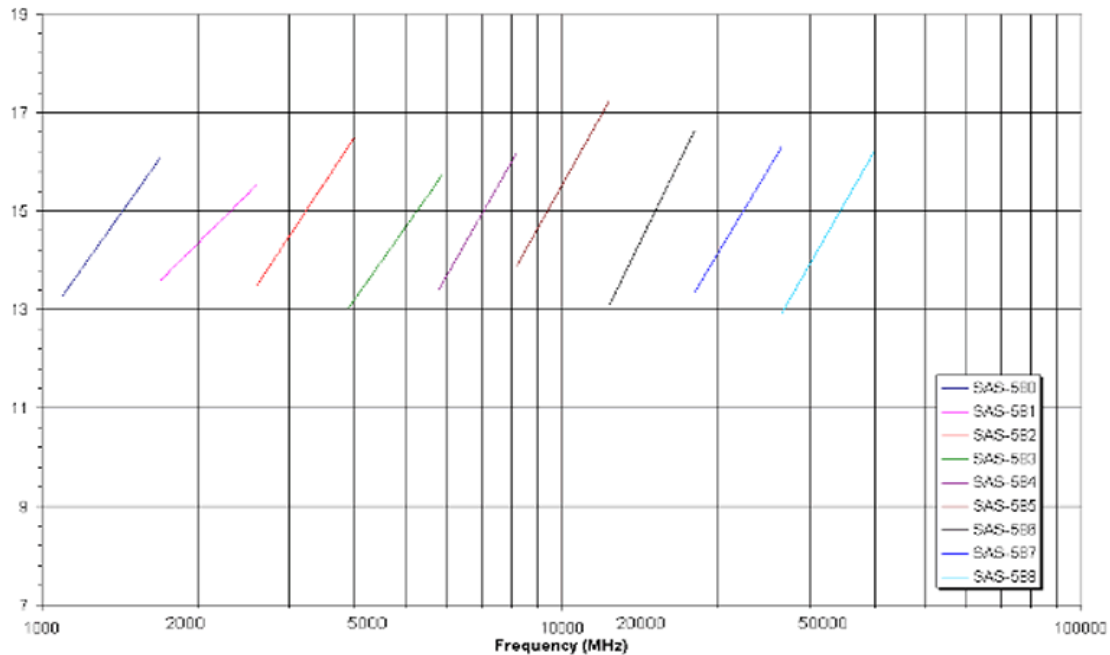


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**Standard Gain Horns  
Antenna Factor (dB/m)**



**Standard Gain Horns  
Antenna Gain (dBi)**





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**Standard Gain Horns  
Antenna VSWR**

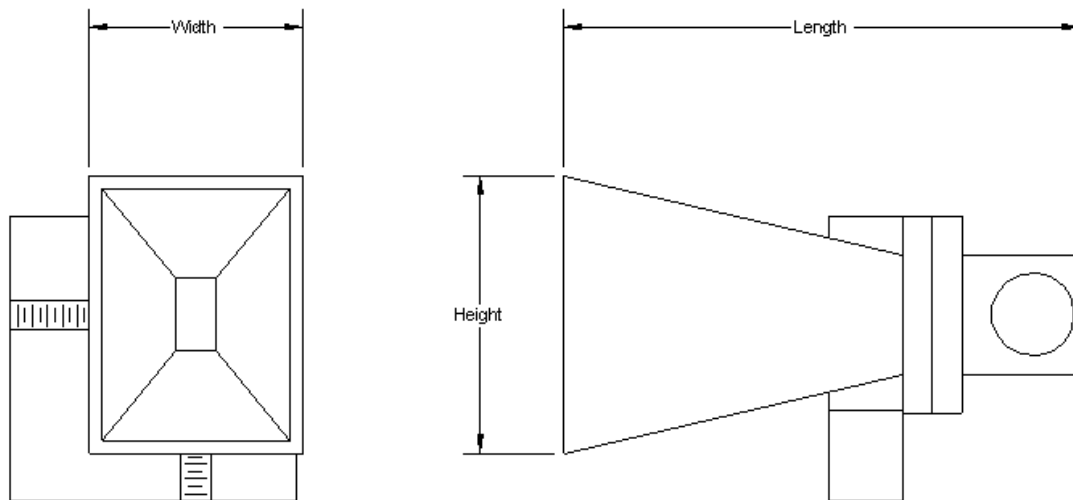
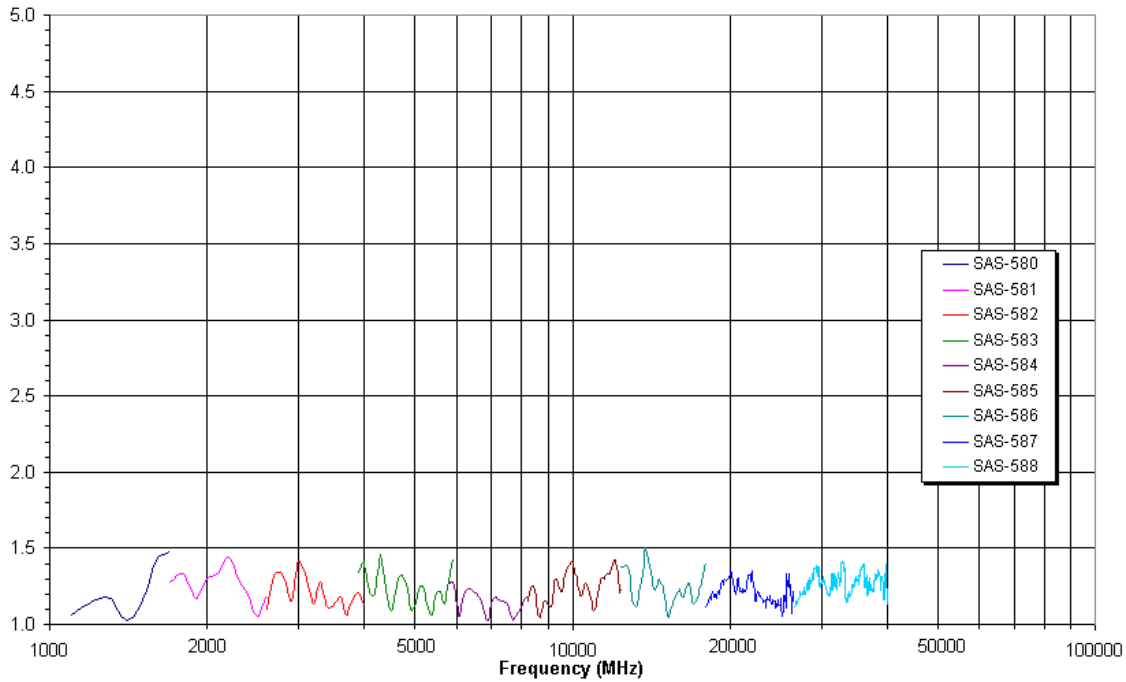


Figure 1 - (Horizontal Polarization)

**Physical Dimensions:**

- Length: 12.0 in. (30.5 cm)
- Width: 3.7 in. (9.4 cm)
- Height: 5.1 in. (12.9 cm)
- Weight: 2.1 lb.'s (952 g)