



A.H. Systems, Inc.

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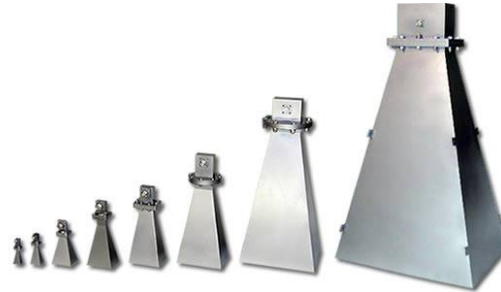
www.AHSystems.com

SAS-580

Standard Gain Horn Antenna

1.12 GHz – 1.70 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: 1.12 GHz - 1.70 GHz

Antenna Factor: 18.2 dB/m

Gain: 14.7 dBi

Maximum Continuous
Power: 550 Watts

Max Radiated Field: 700 V/m

Beamwidth E-plane: 29°

Beamwidth H-plane: 28°

Impedance: 50 Ω

VSWR: 1.2:1 (1.6:1 max)

Connector: WR-650 to N-Type female adapter

Features

- Frequency Range of 1.12 GHz to 1.70 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 ¼-20 male threads. Horizontal and vertical polarization is obtained by rotating the antenna on the tripod.

Recommended Accessories

- ATU-510 (Antenna Tripod Unit, Wooden)
- AEH-511 (Azimuth and Elevation Head)
- SAC-18G-3 (3 Meter Low Loss Cable)



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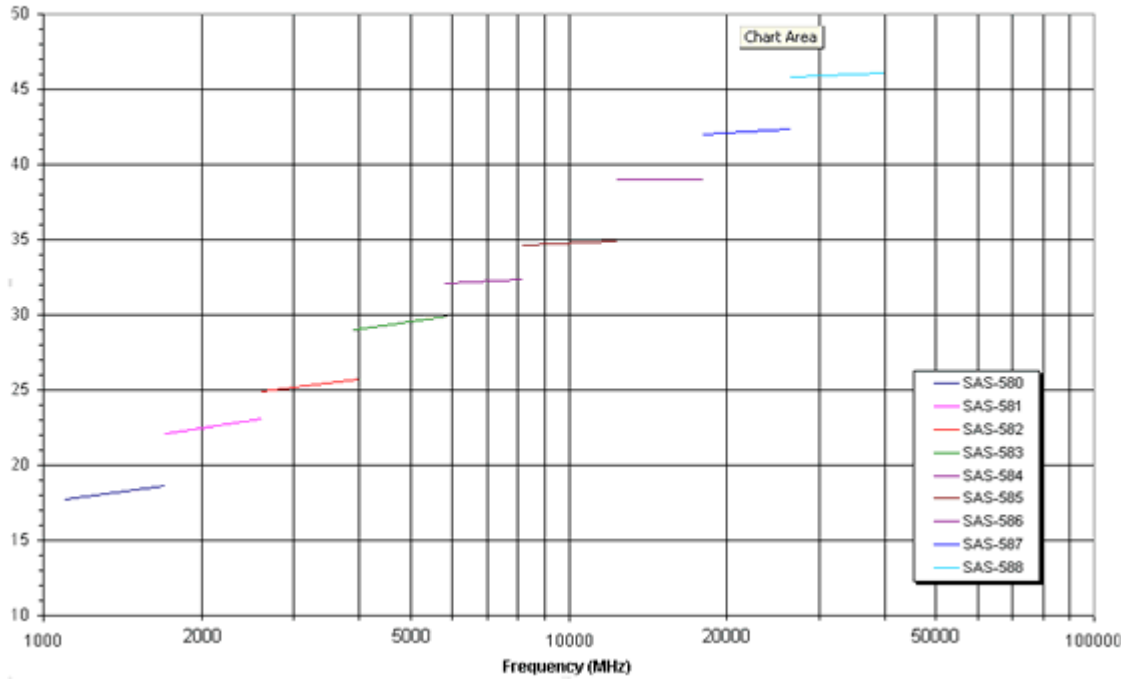
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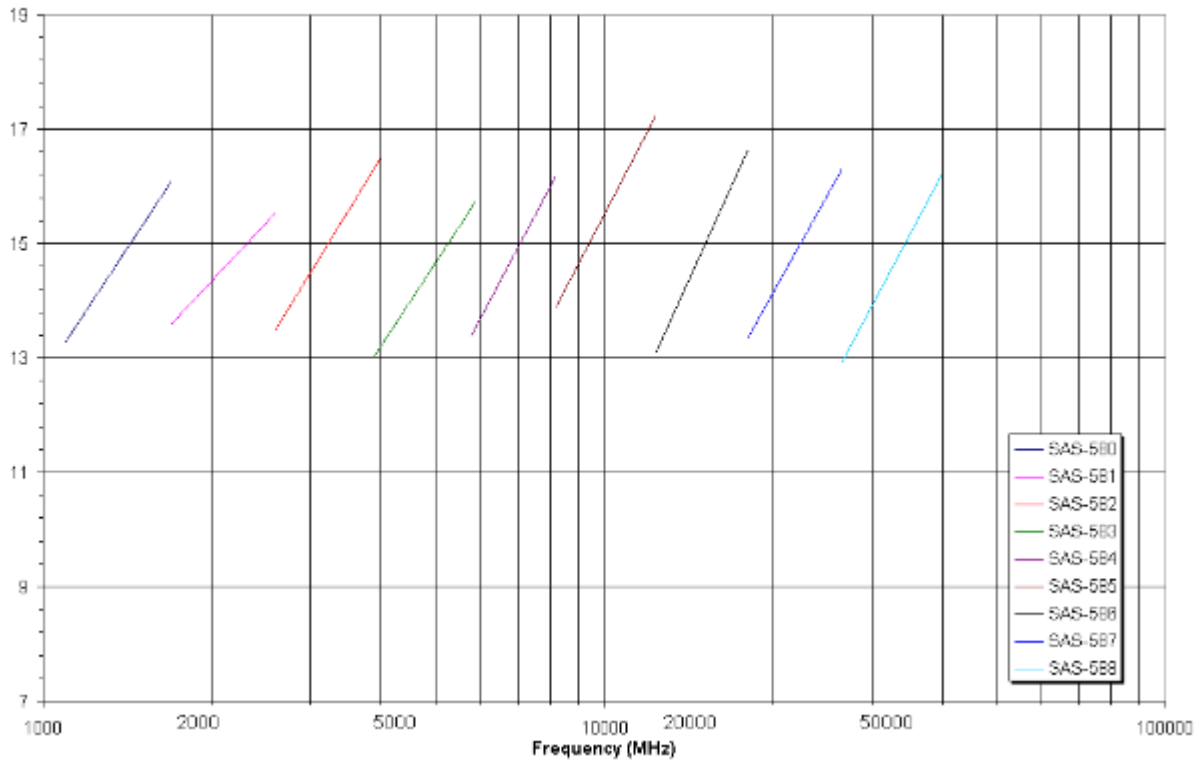


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Standard Gain Horns Antenna Factor (dB/m)



Standard Gain Horns Antenna Gain (dBi)





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**Standard Gain Horns
Antenna VSWR**

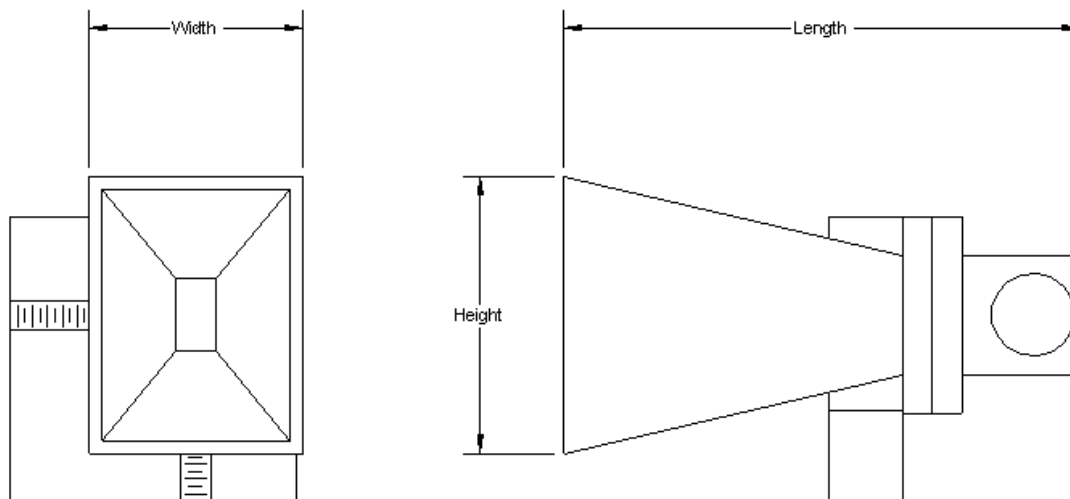
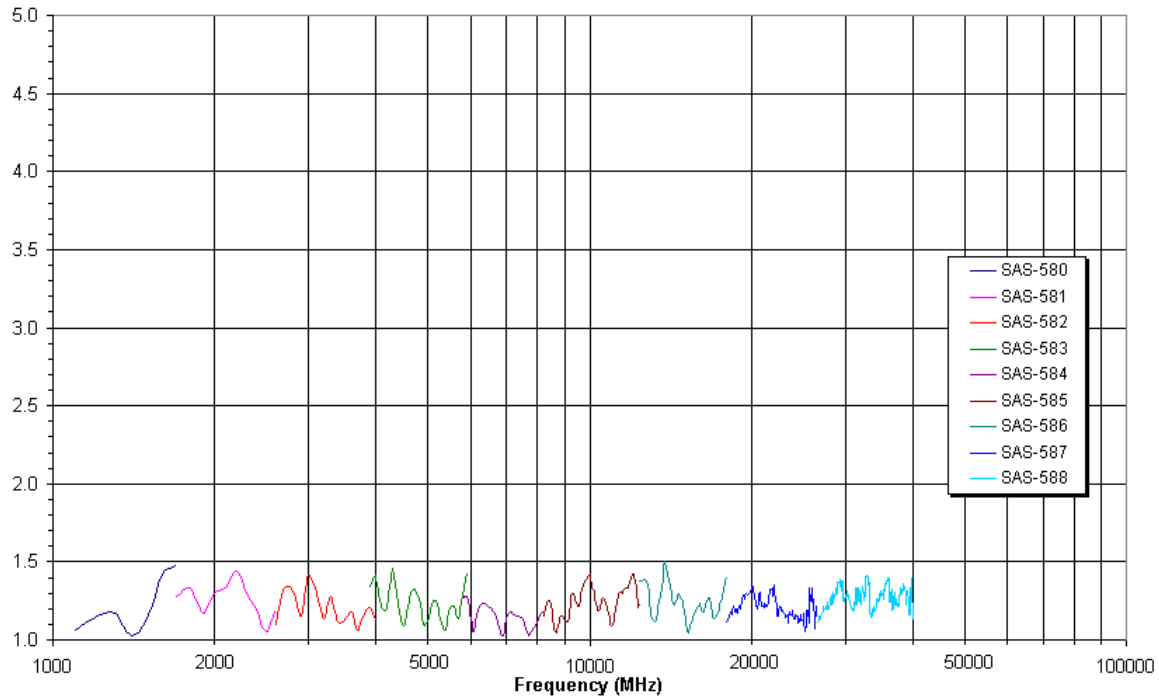


Figure 1 - (Horizontal Polarization)

Physical Dimensions:

Length: 34.4 in. (87.3 cm)
Width: 14.2 in. (36.1 cm)
Height: 20.0 in. (50.8 cm)
Weight: 21 lb.'s (9.5 kg)