



A.H. Systems, Inc.

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SAS-588

Standard Gain Horn Antenna

26.5 GHz – 40 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: 26.5 GHz - 40 GHz

Antenna Factor: 46 dB/m

Gain: 14.6 dBi

Maximum Continuous
Power: 10 Watts

Max Radiated Field: 100 V/m

Beamwidth E-plane: 31°

Beamwidth H-plane: 30°

Impedance: 50 Ω

VSWR: 1.3:1 (1.5:1 max)

Connector: WR-28 to 2.9mm-Type female adapter

Features

- Frequency Range of 26.5 GHz to 40 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-40G-1.5 (1.5 Meter Low Loss Cable)



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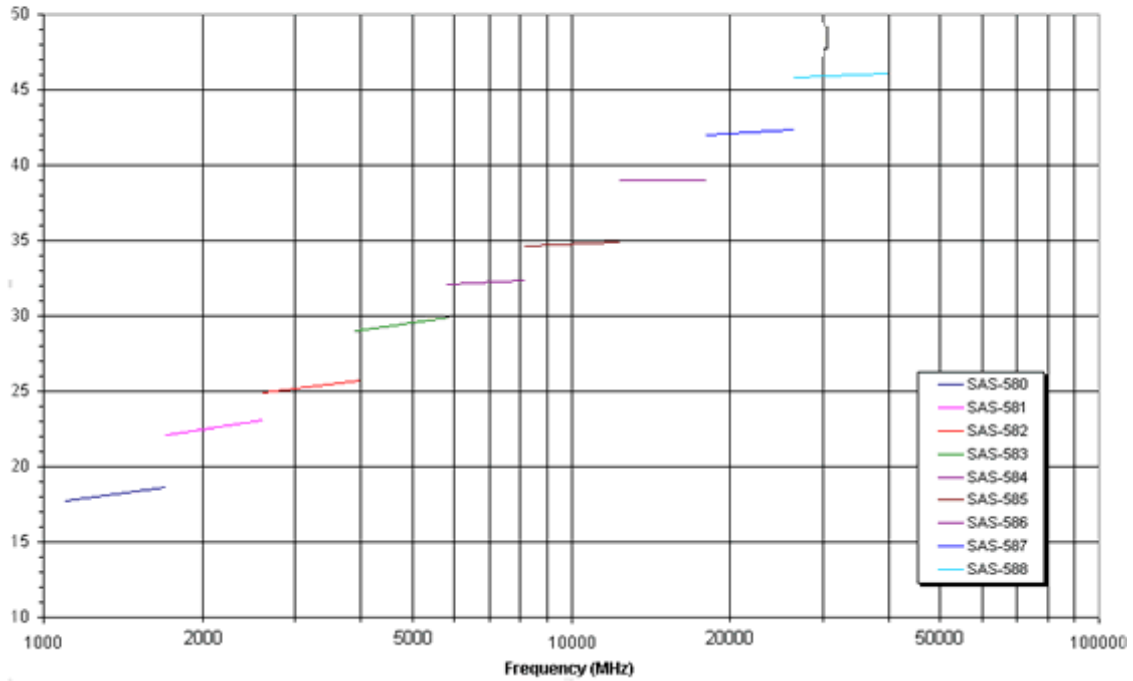
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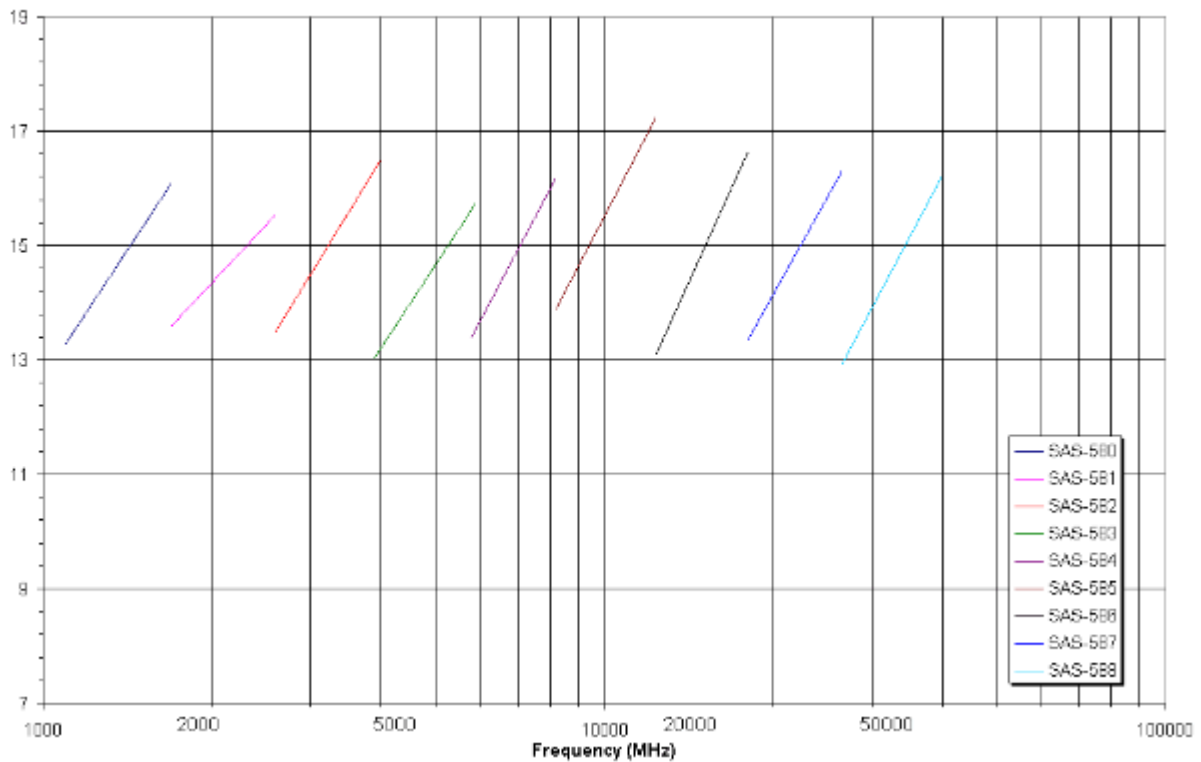
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Standard Gain Horns Antenna Factor (dB/m)



Standard Gain Horns Antenna Gain (dBi)





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**Standard Gain Horns
Antenna VSWR**

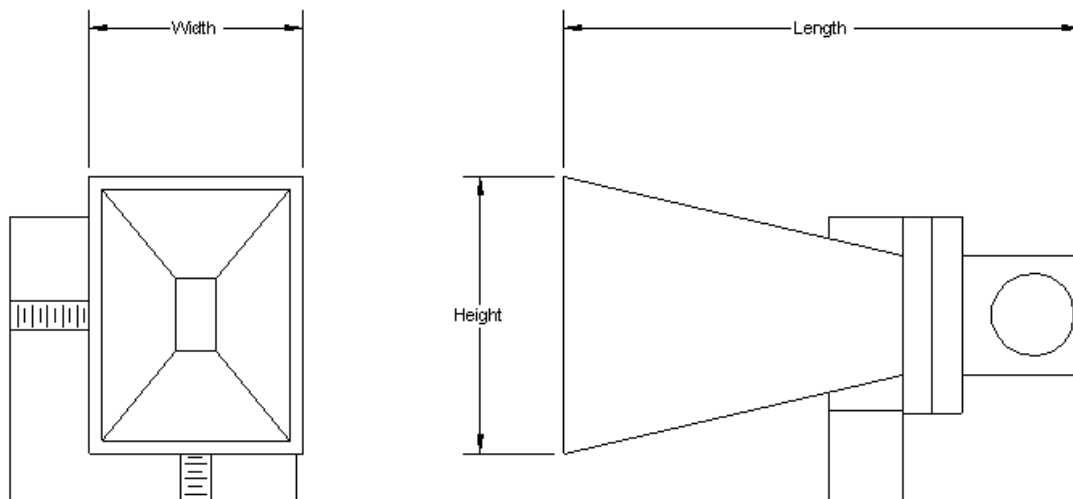
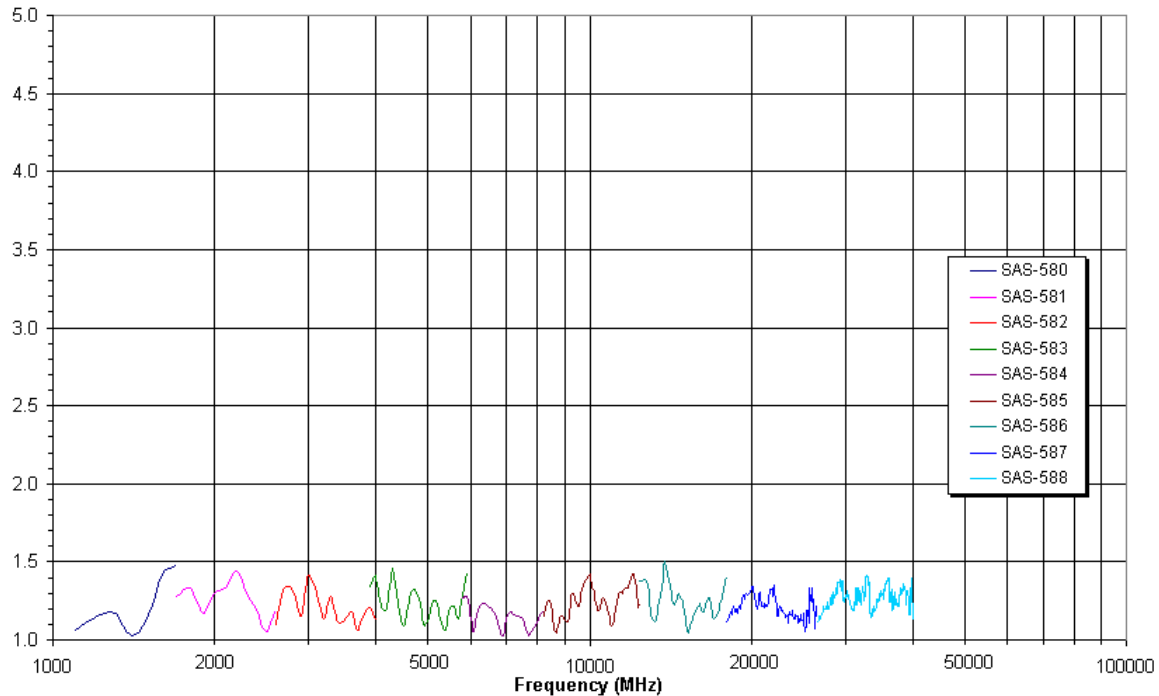


Figure 1 - (Horizontal Polarization)

Physical Dimensions:

Length: 2.9 in. (7.37 cm)
Width: 0.6 in. (1.52 cm)
Height: 0.9 in. (2.29 cm)
Weight: 0.1 lb.'s (0.05 kg)