A.H. Systems, Inc.
9710 Cozycroft Ave.
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Tel: (818) 998-0223 ◆ sales@AHSystems.com
Fax: (818) 998-6892 ◆ www.AHSystems.com

SAS-584-20

Standard Gain Horn Antenna

5.85 GHz – 8.20 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:	5.85 GHz – 8.20 GHz
Antenna Factor:	26 - 28 dB/m
Average Gain:	19.9 dBi
Maximum Continuous Power:	250 Watts
Beamwidth E-plane:	19°
Beamwidth H-plane:	18.6°
Impedance:	50 Ω
Average VSWR:	1.11:1 (1.25:1 max)
Connector:	WR-137 to N-Type female adapter

Features

- Frequency Range of 5.85 GHz to 8.2 GHz
- Linearly Polarized High Gain, Low VSWR
- Individually Calibrated at 1 Meter Horizontal Polarity
- Attached Tripod Mount 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 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-510 (Azimuth and Elevation Head)
- SAC-18G-3 (3 Meter Low Loss Cable)

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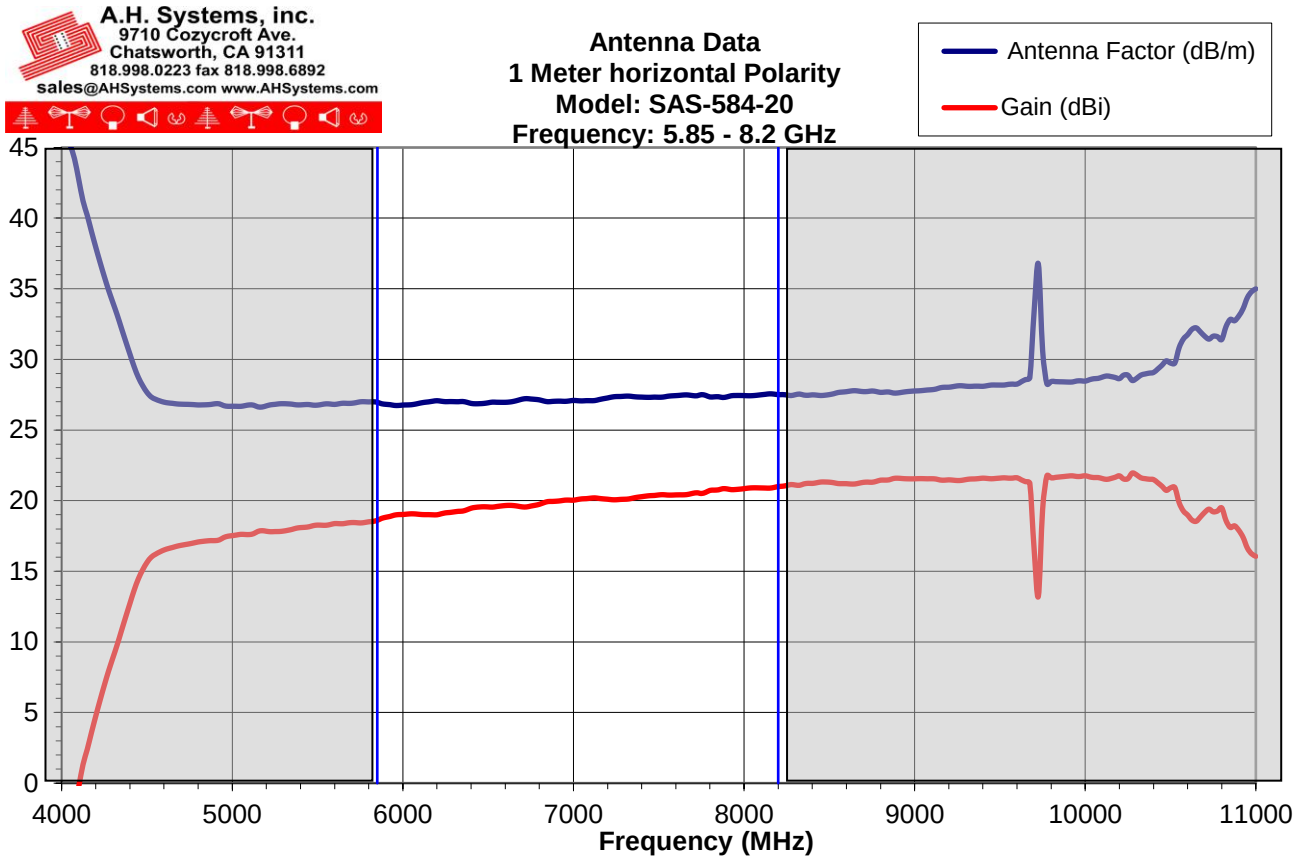

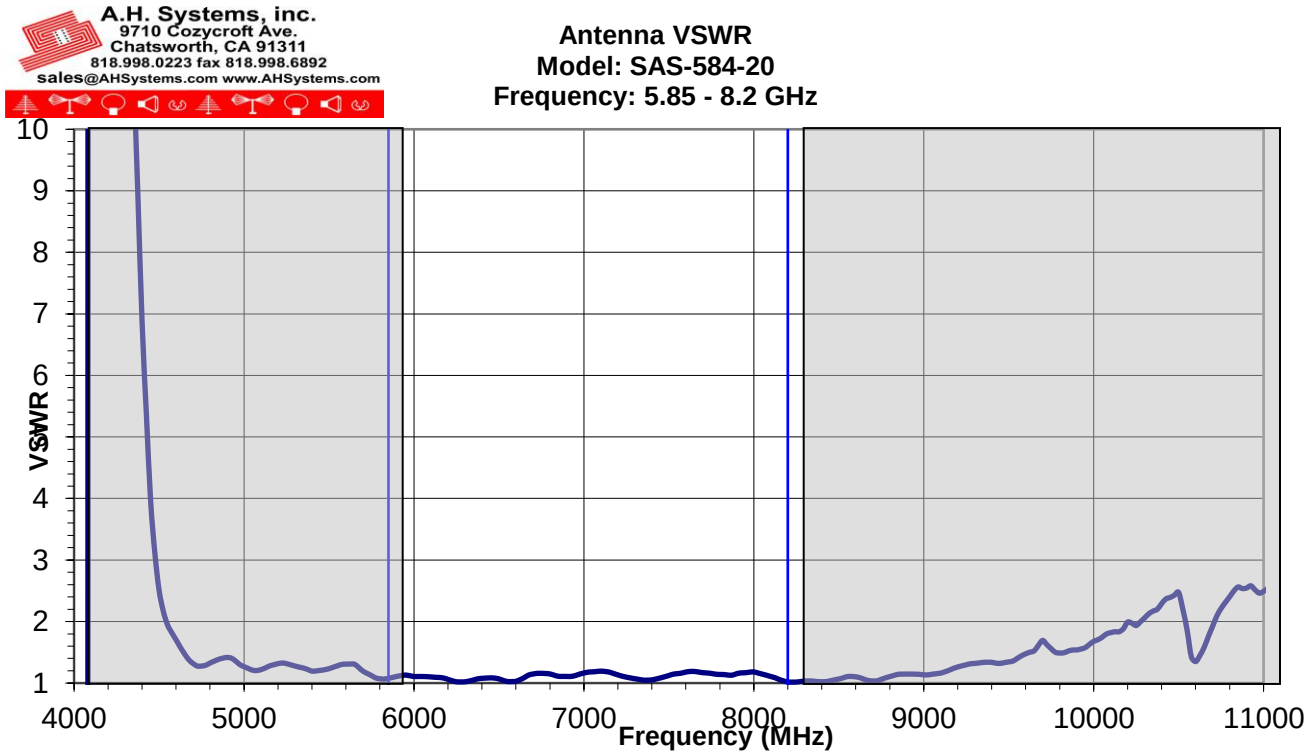

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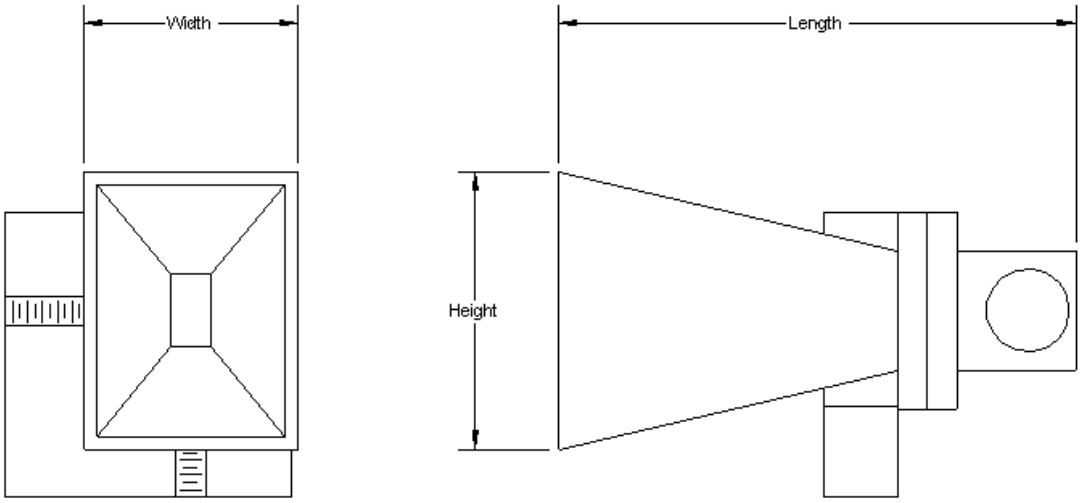

Figure 1 – SAS-584-20 (Horizontal Polarization)

Physical Dimensions:

Length: 14.2 in. *(36 cm)*
Width: 4.6 in. *(11.7 cm)*
Height: 6.25 in. *(15.9 cm)*
Weight: 1.9 lb. *(861 g)*