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SAS-583-20

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: 24 dB/m

Gain: 20 dBi

Maximum Continuous
Power: 250 Watts

Max Radiated Field: 500 V/m

Beamwidth E-plane: 19.4°

Beamwidth H-plane: 18.8°

Impedance: 50 Ω

VSWR: 1.2:1 (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 at 1 and 3 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 1/4-20 male threads. Horizontal and vertical polarization is obtained by rotating the antenna on the tripod.

Recommended Accessories

- ATU-514 (Antenna Tripod)
- AEH-510 (Azimuth and Elevation Head)
- SAC-18G-3 (3 Meter Low Loss Cable)



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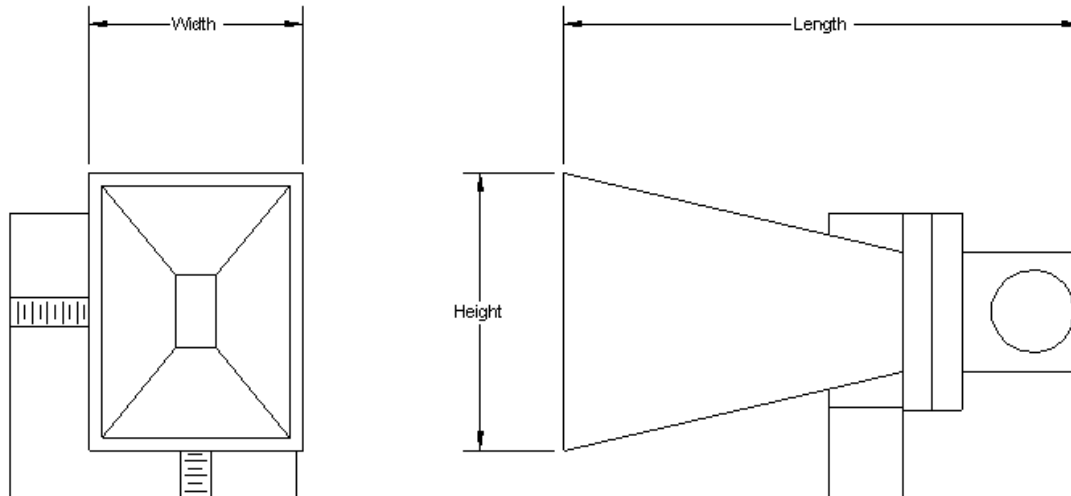


Figure 1 – SAS-583-20 (Horizontal Polarization)

Physical Dimensions:

Length: 17.0 in. (43 cm)

Width: 6.7 in. (17 cm)

Height: 9.1 in. (23.2 cm)