

Standard Gain Horn Antenna

3.95-5.85 GHz | 15 dBi | P/N: AMT-SGH187-15-NF

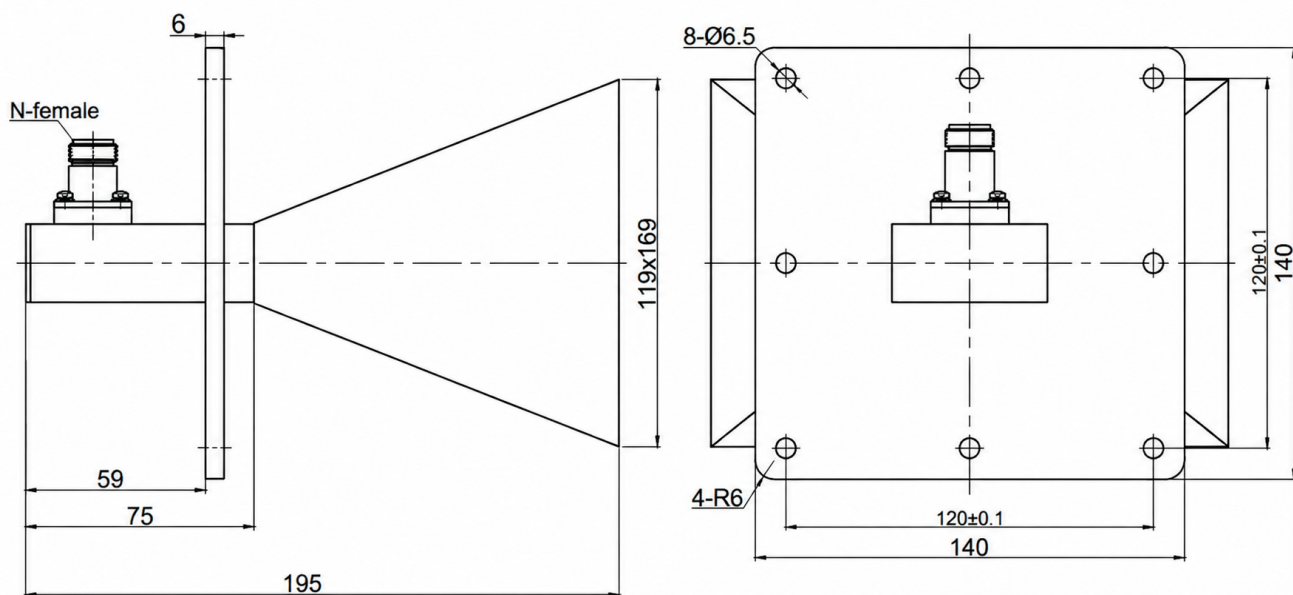
1. Product Overview

The AMT-SGH187-15-NF is a linearly polarized standard gain horn antenna operating from 3.95 GHz to 5.85 GHz. It provides nominal 15 dBi gain, low VSWR, stable directional performance, and an N-Female coaxial interface. Its aluminum construction is suitable for antenna calibration, gain comparison, RF measurement, laboratory testing, and system integration.

2. Technical Specifications

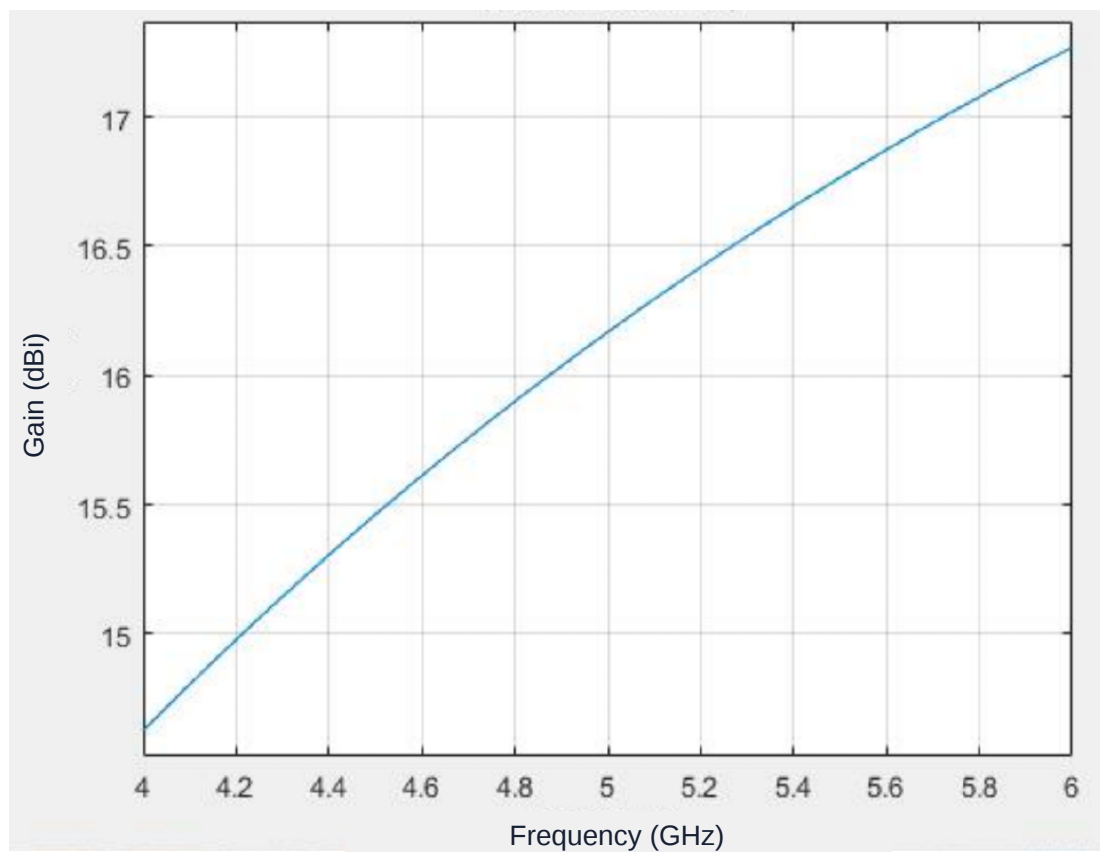
Parameter	Specification
Frequency Range	3.95-5.85 GHz
Nominal Gain	15 dBi typ.
VSWR	≤ 1.5
Polarization	Linear
RF Connector	N-Female
Dimensions (L × W × H)	195 × 140 × 140 mm Approx.
Material	Aluminum
Surface Finish	Sea-gray paint
Weight	Approx. 750 g

3. Outline(mm)

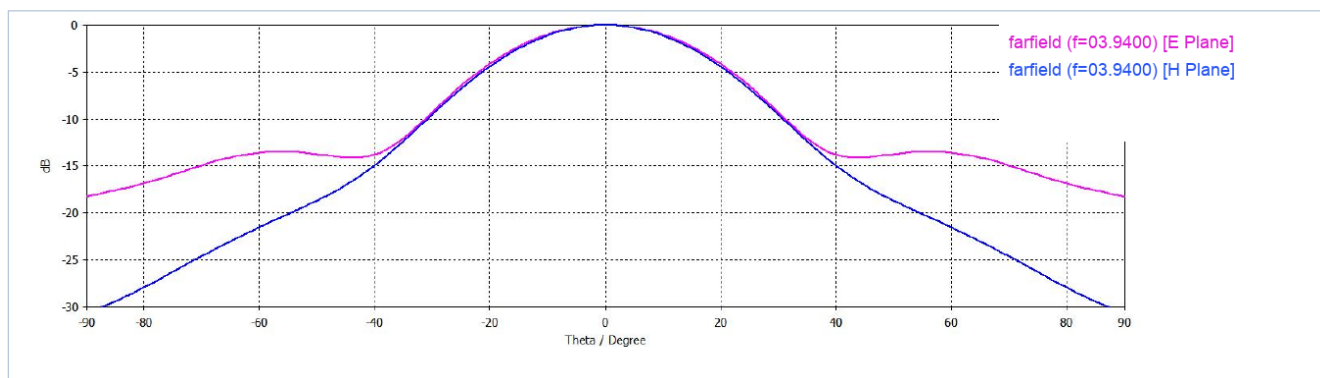


Test Result

Gain



Pattern



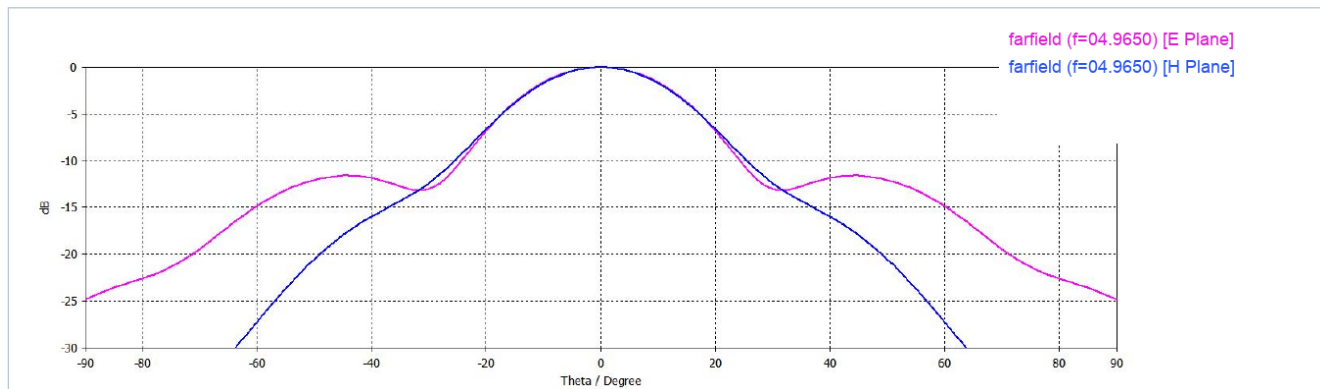
F = 3.94 GHz

— H-plane 3dB Beamwidth: 32.8°

— E-plane 3dB Beamwidth: 34.2°

Radiation Pattern

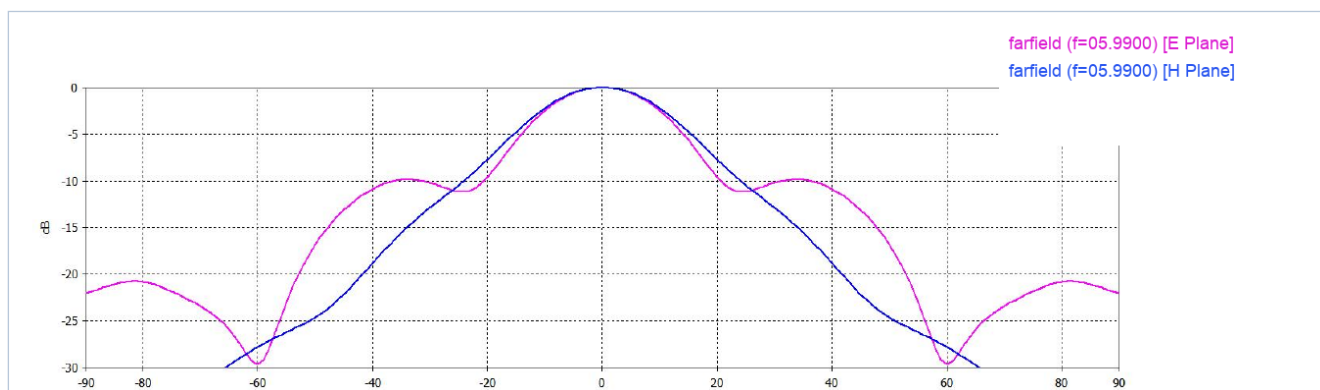
Measured H-plane and E-plane patterns



F = 4.965 GHz

— H-plane 3dB Beamwidth: 26.5°

— E-plane 3dB Beamwidth: 26.9°



F = 5.99 GHz

— H-plane 3dB Beamwidth: 23.5°

— E-plane 3dB Beamwidth: 22°