

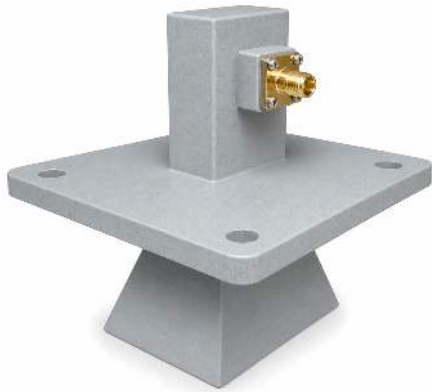
Standard Gain Horn Antenna

8.2-12.4 GHz | 15 dBi | P/N: AMT-SGH90-15-NF

1. Product Overview

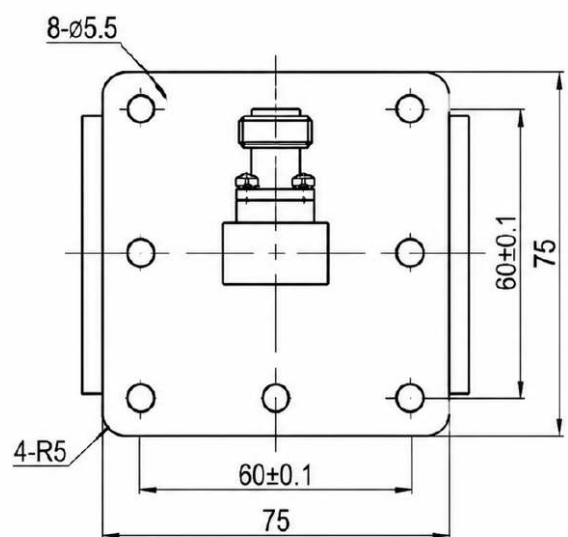
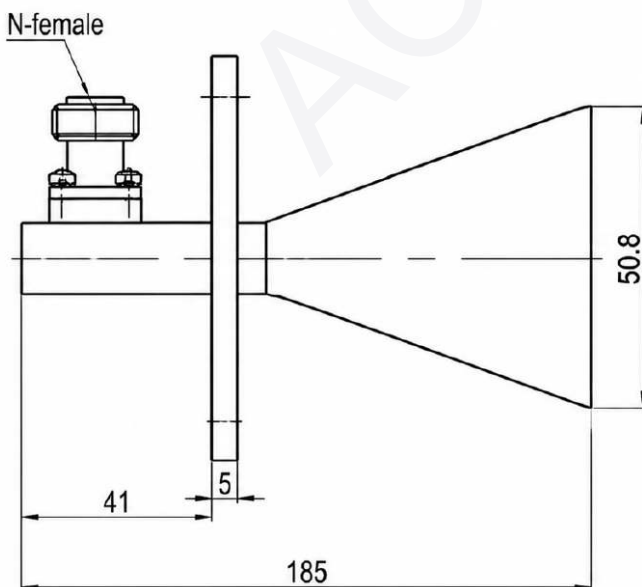
The AMT-SGH90-15-NF is a linearly polarized standard gain horn antenna operating from 8.2 GHz to 12.4 GHz. It provides nominal 15 dBi gain and low VSWR for antenna calibration, gain comparison, RF measurement, EMC/EMI testing, and laboratory applications.

2. Technical Specifications



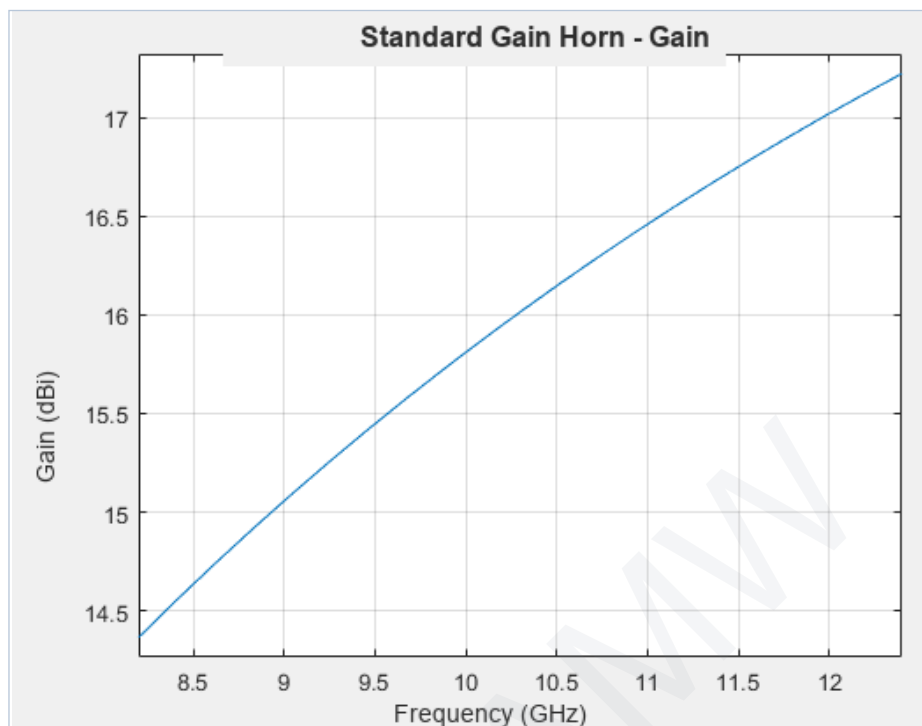
Parameter	Specification
Frequency Range	8.2-12.4 GHz
Nominal Gain	15 dBi
VSWR	≤ 1.5
Polarization	Linear
RF Connector	N-Female; SMA-Female optional
Dimensions	56 × 81 × 105 mm Approx.
Material	Aluminum
Surface Finish	Sea-gray paint

3. Outline (mm)



Test Result

Gain



Gain Data

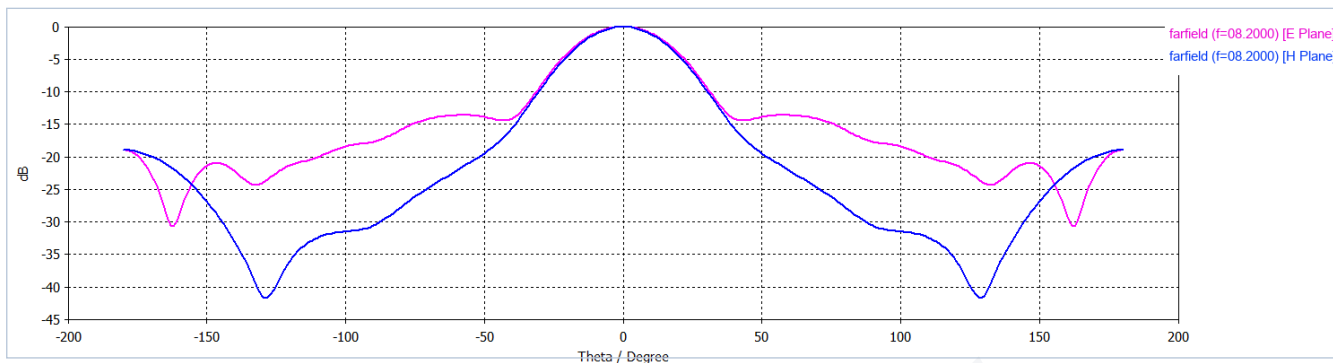
Frequency (GHz)	Gain (dBi)	Frequency (GHz)	Gain (dBi)
8.20	14.36627729	10.51	16.15277292
8.41	14.55604558	10.72	16.28663535
8.62	14.73965364	10.93	16.41643540
8.83	14.91736336	11.14	16.54230155
9.04	15.08941829	11.35	16.66435524
9.25	15.25604530	11.56	16.78271137
9.46	15.41745610	11.77	16.89747880
9.67	15.57384859	11.98	17.00876075
9.88	15.72540804	12.19	17.11665523
10.09	15.87230813	12.40	17.22125537
10.30	16.01471197		

VSWR



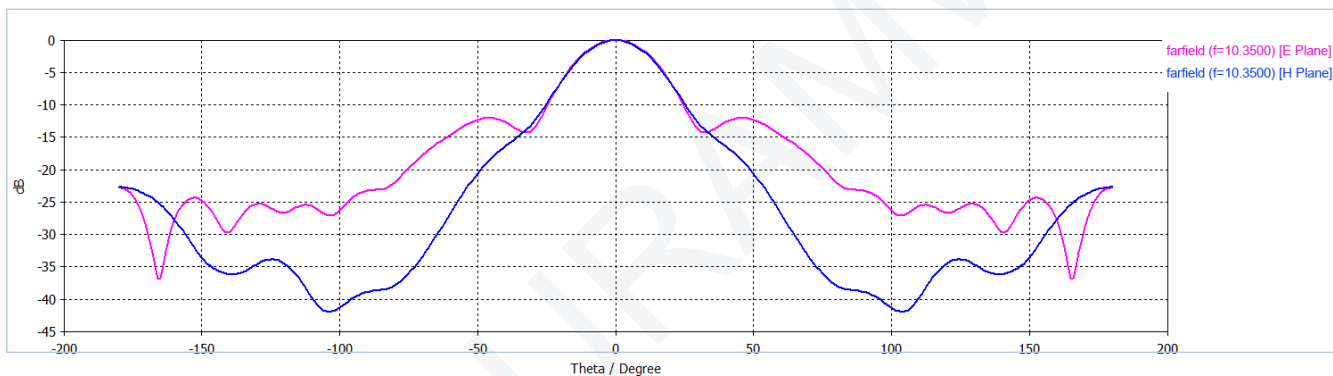
Pattern

8.20 GHz



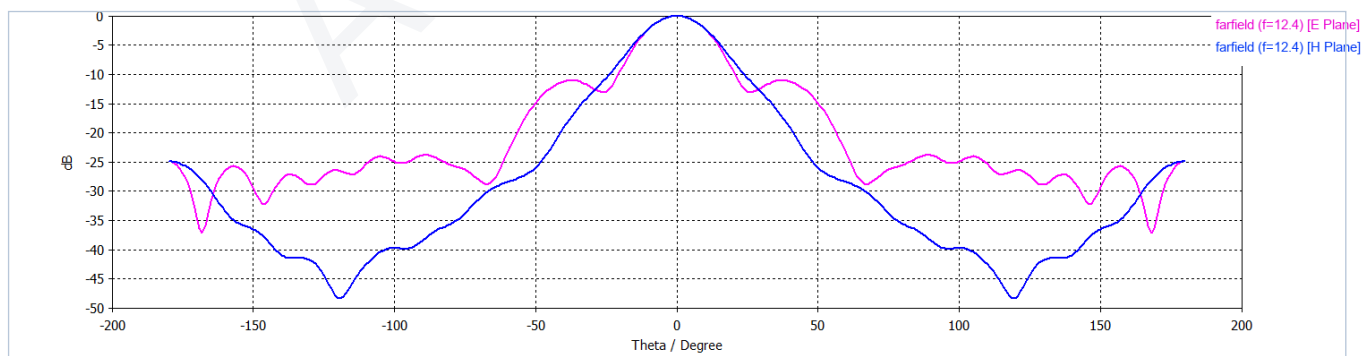
3 dB Beamwidth: H Plane 32.8°; E Plane 34.6°

10.35 GHz



3 dB Beamwidth: H Plane 26.7°; E Plane 27.6°

12.40 GHz



3 dB Beamwidth: H Plane 23.7°; E Plane 23.0°