

WR62 Standard Gain Horn Antenna

12.4-18.0 GHz | 20 dBi | P/N: AMT-SGH62-20-SF

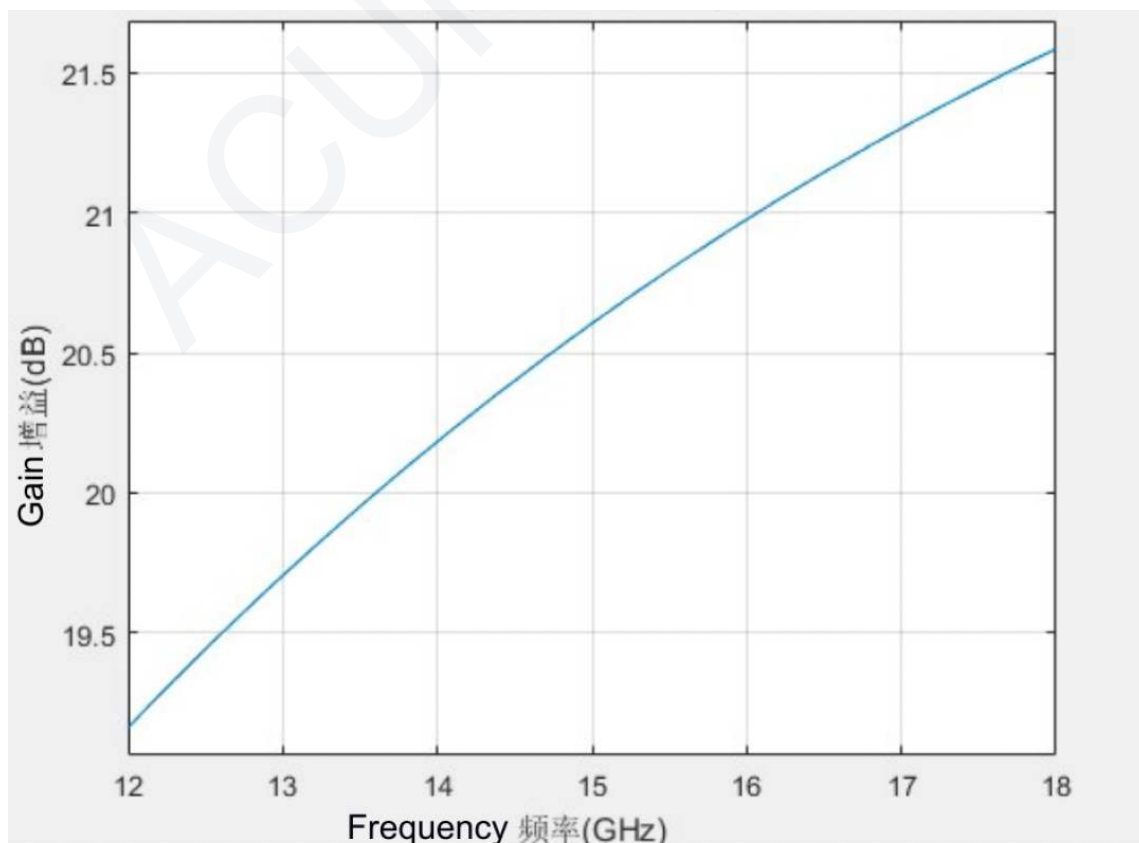
1. Product Overview

The AMT-SGH62-20-SF is a linearly polarized WR62 standard gain horn antenna operating from 12.4 GHz to 18.0 GHz. It provides nominal 20 dBi gain and low VSWR for antenna calibration and RF measurement applications.

2. Technical Specifications

Parameter	Specification
Frequency Range	12.4-18.0GHz
Nominal Gain	20 dBi typ.
Polarization	Linear
VSWR	≤ 1.5
RF Connector	SMA-Female / N-Female
Dimensions	79 × 93 × 170 mm
Color	Sea gray
Material	Aluminum

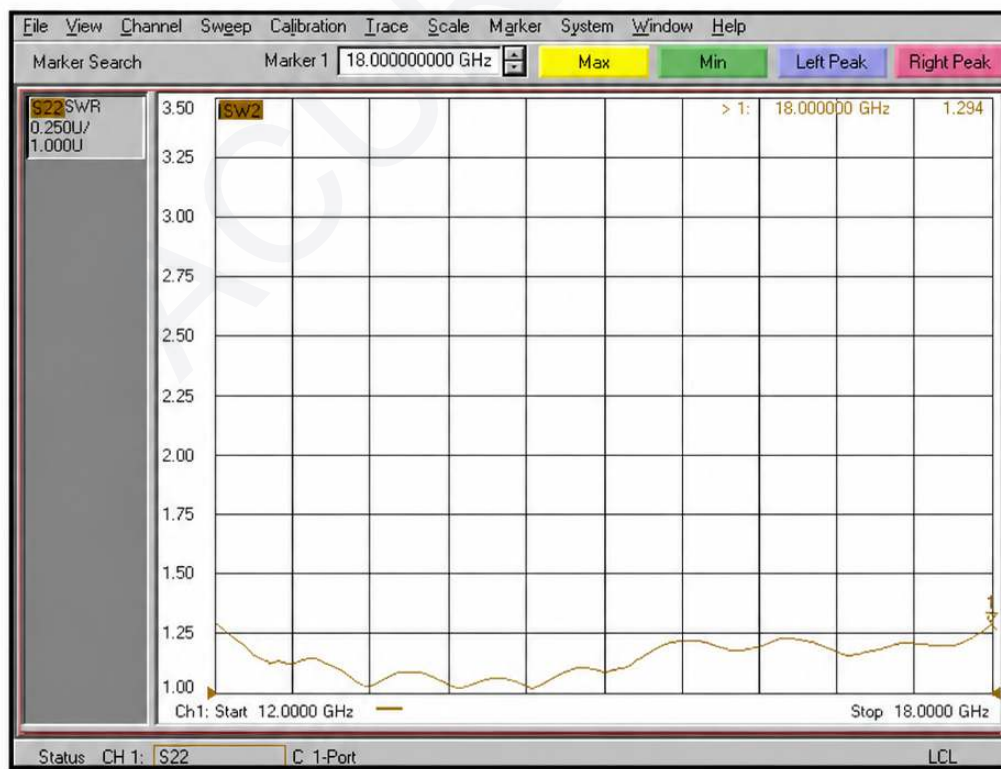
3. Test Result Gain



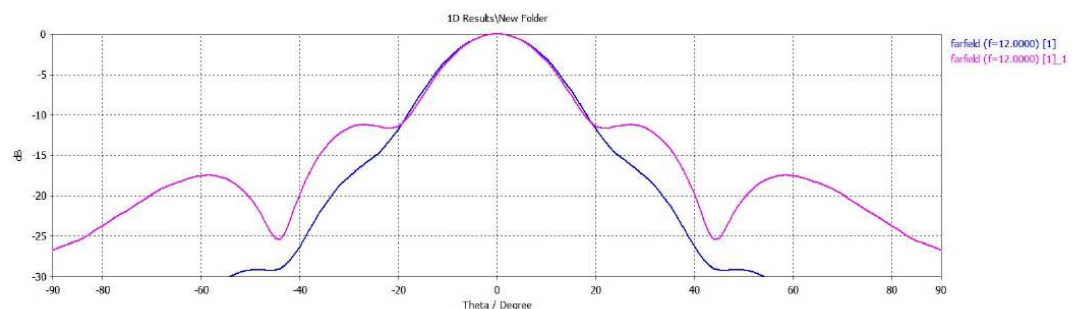
Gain Data

Frequency(GHz)	Gain(dBi)	Frequency(GHz)	Gain(dBi)
12	19.16	15.3	20.72
12.3	19.33	15.6	20.83
12.6	19.5	15.9	20.94
12.9	19.65	16.2	21.04
13.2	19.8	16.5	21.14
13.5	19.95	16.8	21.26
13.8	20.1	17.1	21.33
14.1	20.22	17.4	21.42
14.4	20.35	17.7	21.5
14.7	20.48	18	21.58
15	20.6		

VSWR

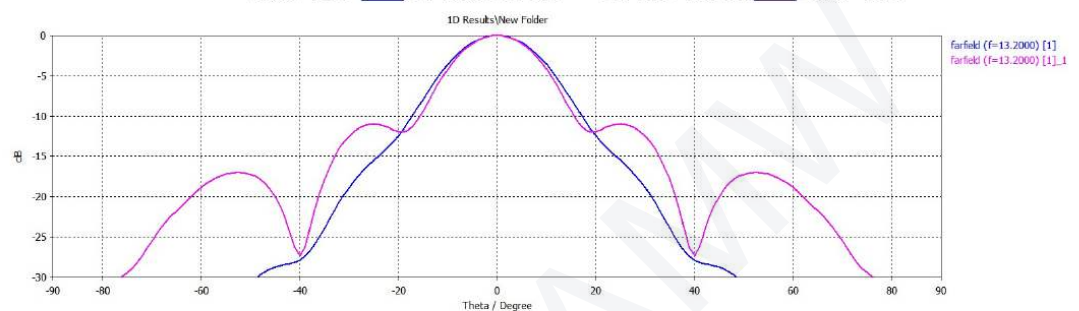


Pattern



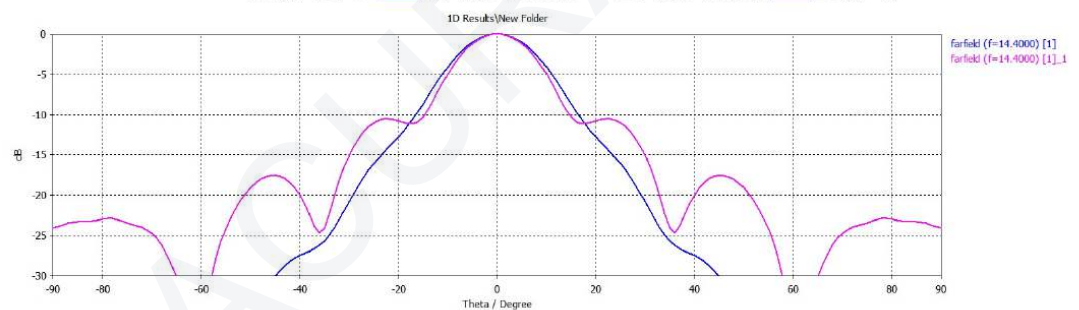
F=12 GHz

$2\theta_{0.5}=19.6^\circ$ H-Plane Pattern E-Plane Pattern $2\theta_{0.5}=18.9^\circ$



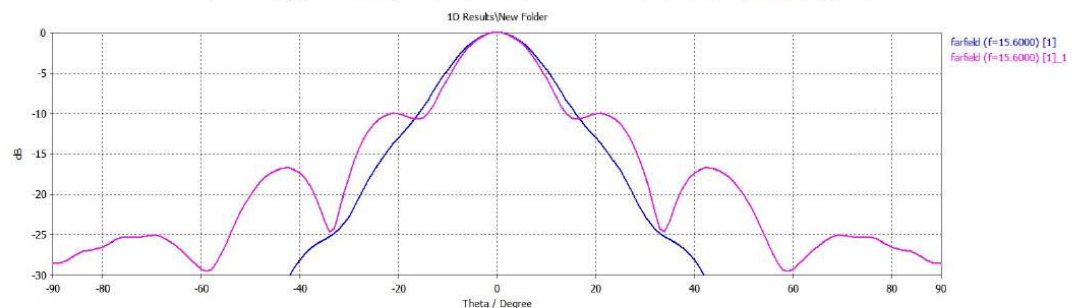
F=13.2 GHz

$2\theta_{0.5}=18.2^\circ$ H-Plane Pattern E-Plane Pattern $2\theta_{0.5}=17^\circ$



F=14.4 GHz

$2\theta_{0.5}=17^\circ$ H-Plane Pattern E-Plane Pattern $2\theta_{0.5}=15.6^\circ$

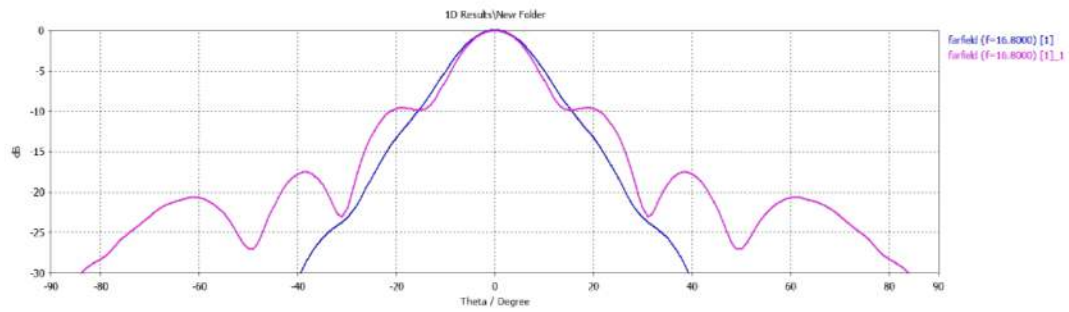


F=15.6 GHz

$2\theta_{0.5}=16.1^\circ$ H-Plane Pattern E-Plane Pattern $2\theta_{0.5}=14.6^\circ$

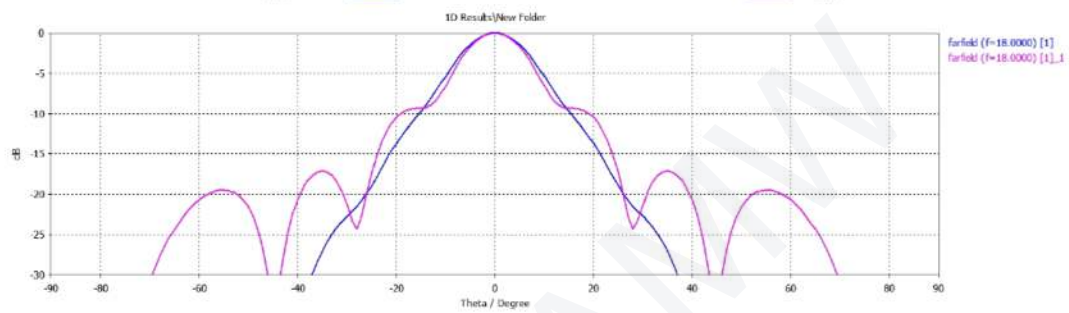


Pattern



F=16.8 GHz

$2\theta_{0.5}=15.2^\circ$ H-Plane Pattern E-Plane Pattern $2\theta_{0.5}=13.8^\circ$



F=18 GHz

$2\theta_{0.5}=14.6^\circ$ H-Plane Pattern E-Plane Pattern $2\theta_{0.5}=13.2^\circ$