

WR12 Standard Gain Horn Antenna

60-90 GHz | 25 dBi | P/N: AMT-SGH12-25

1. Product Overview

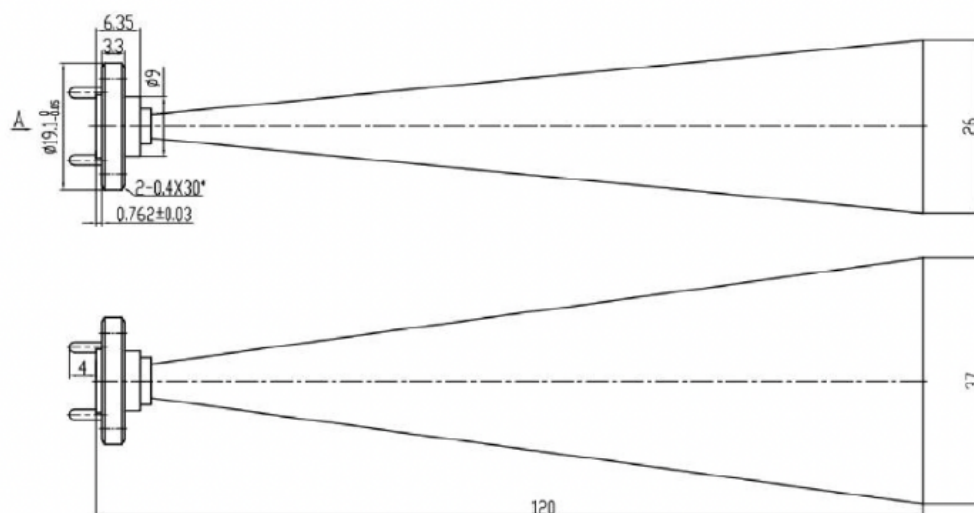
The AMT-SGH12-25 is a linearly polarized WR12 standard gain horn antenna operating from 60 GHz to 90 GHz. It provides nominal 25 dBi gain and low VSWR for antenna calibration and millimeter-wave measurement applications.

2. Technical Specifications

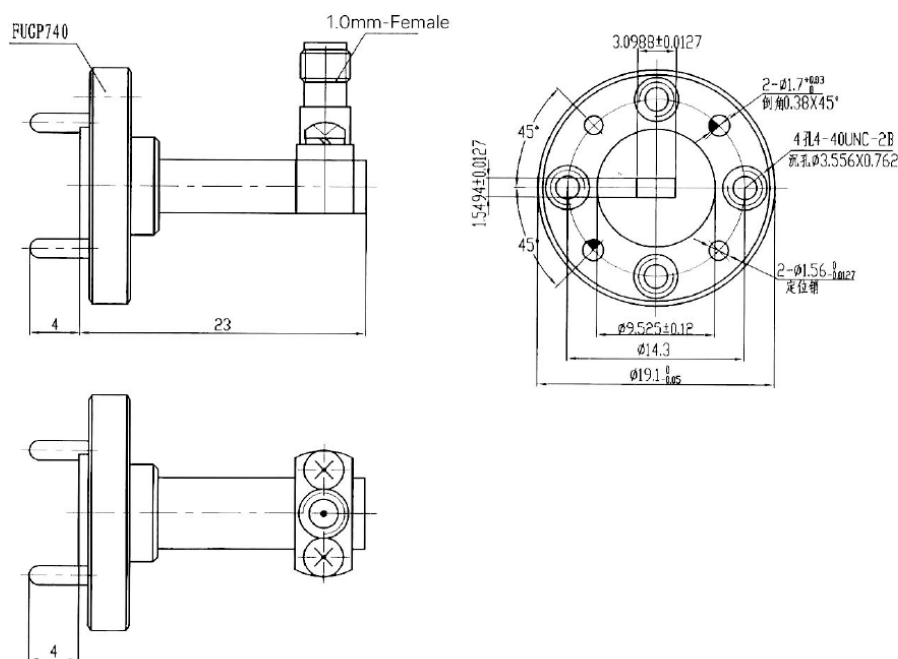
Parameter	Specification
Frequency Range	60-90 GHz
Nominal Gain	25 dBi typ.
Polarization	Linear
Impedance	50 Ω
VSWR	≤ 1.25
RF Interface	WR12(FUGP740, UG-387/U) / 1.0 mm-Female
Dimensions	37 × 26 × 120 mm
Material	Copper
Finish	Gold plated

Outline(mm)

Flange Output (FUGP740, equivalent to UG-387/U)

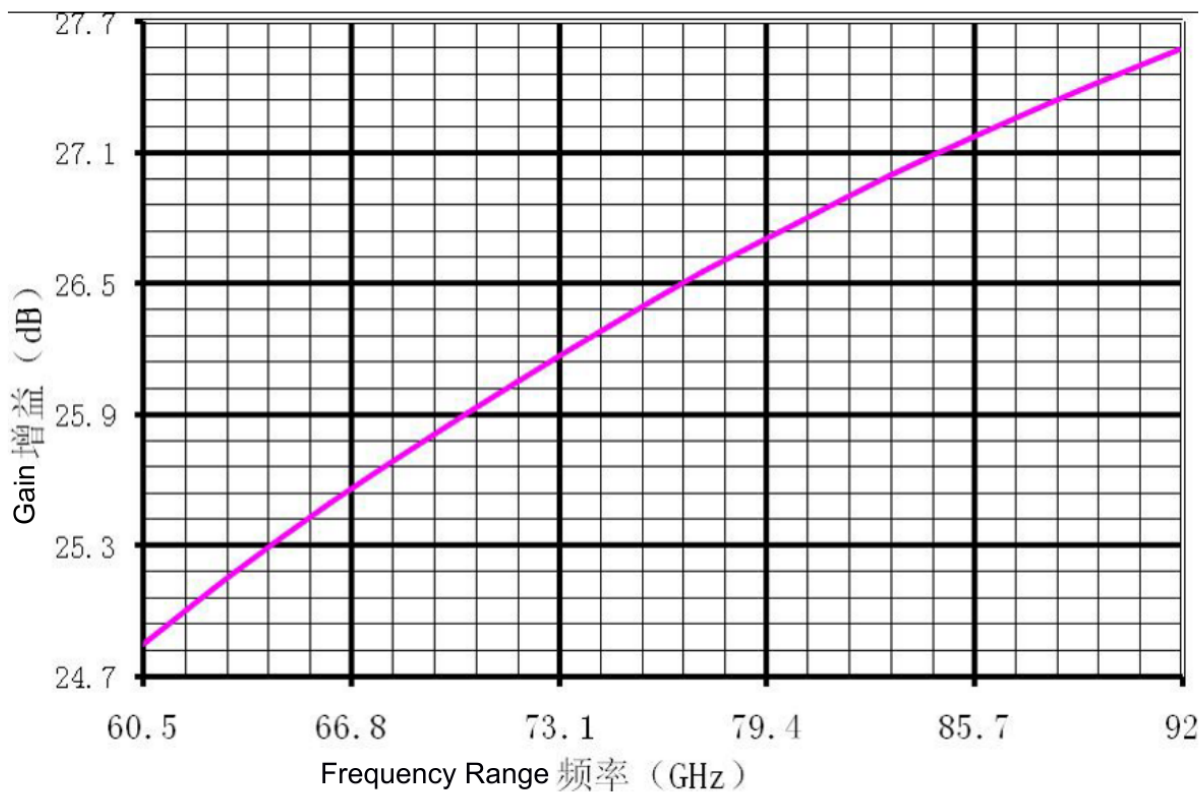


WR12 Waveguide to Coaxial Adapter with 1.0mm-female (FUGP740, equivalent to UG-387/U)

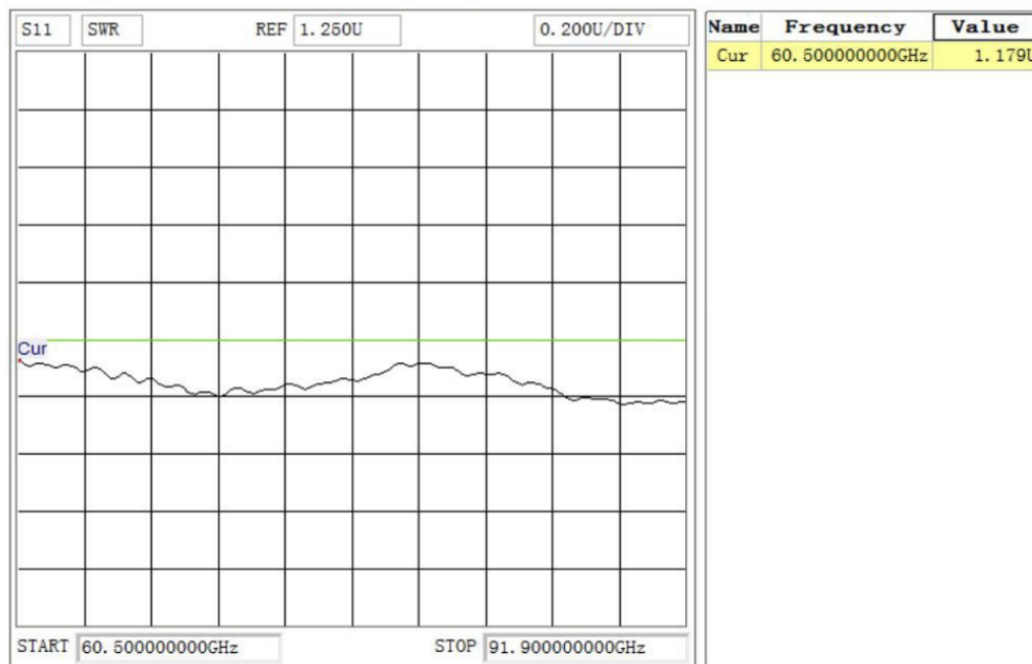


Test Result

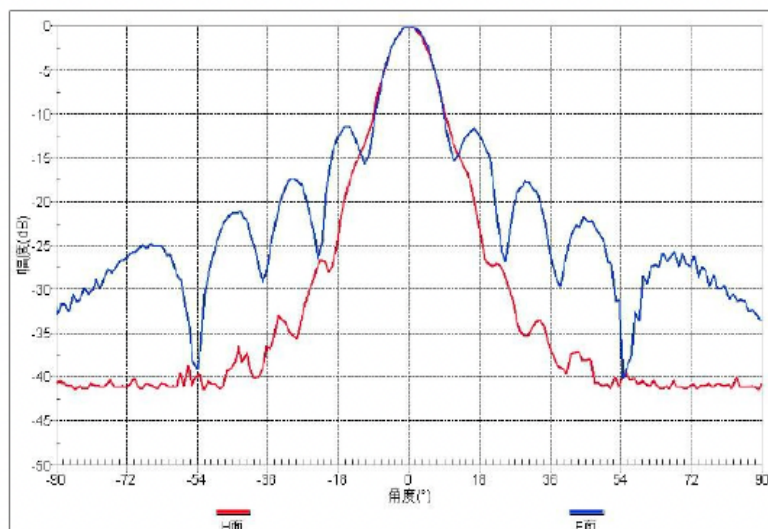
Gain



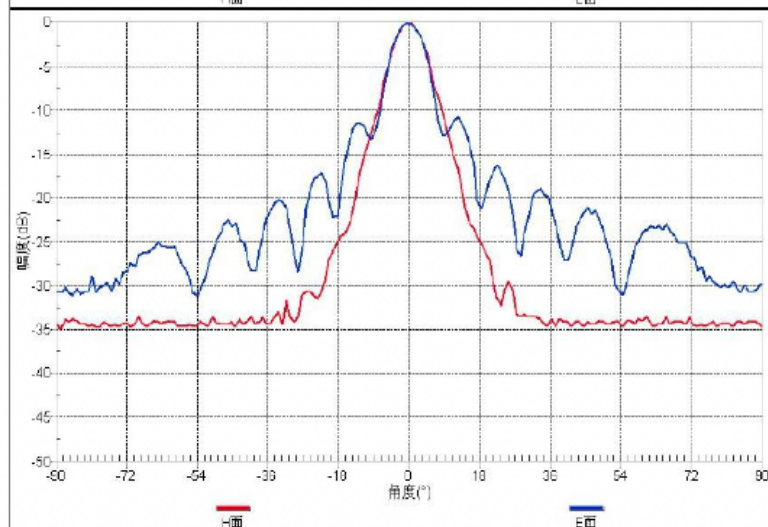
VSWR



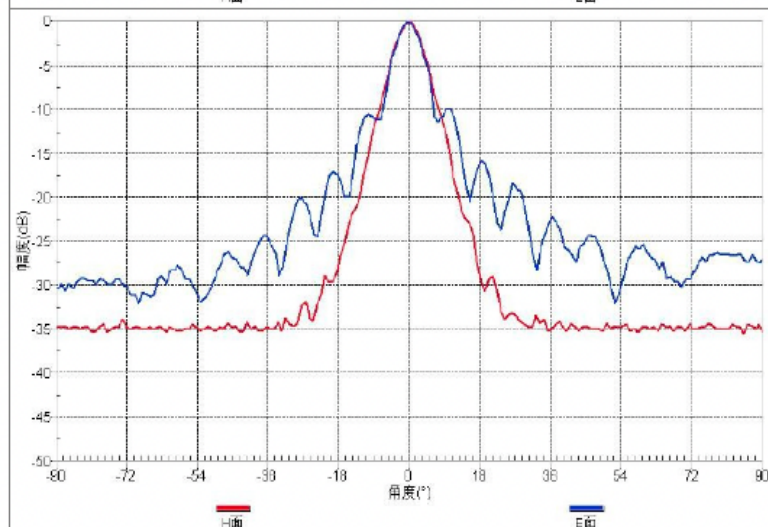
Pattern



Frequency : 60.50GHz
H-Plane Beamwidth:
-3dB: 9.91°
E-Plane Beamwidth
-3dB: 10.18°



Frequency : 76.20GHz
H-Plane Beamwidth:
-3dB: 8.34°
E-Plane Beamwidth
-3dB: 8.42°



Frequency : 91.90GHz
H-Plane Beamwidth:
-3dB: 7.43°
E-Plane Beamwidth
-3dB: 6.79°