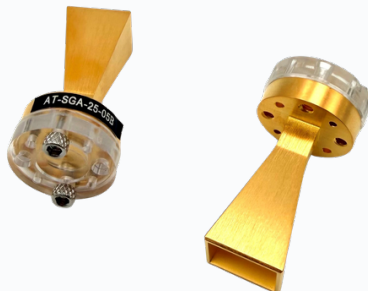


# AT Microwave AT-SGA-25-05B – G-Band Horn Antenna

WR-05 Standard Gain Horn Antenna · 140-220 GHz, 25 dBi · Product Datasheet



## KEY FEATURES

Parameter	Min	Typ	Max
Frequency	140 GHz	–	220 GHz
Gain	–	25 dBi	–
3 dB Beamwidth E-Plane	–	9°	–
3 dB Beamwidth H-Plane	–	10°	–
VSWR	–	1.2:1	–

## TECHNICAL SPECIFICATIONS

- **Product Type**  
WR-05 Standard Gain Horn Antenna
- **Frequency Range**  
140 – 220 GHz (full G-band)
- **Gain**  
25 dBi typ.
- **Polarization**  
Linear
- **3 dB Beamwidth**  
E-plane 9° / H-plane 10°
- **Side Lobes**  
E-/H-plane: –20 dB
- **VSWR**  
1.2:1
- **Series Coverage**  
SGA series up to 750 GHz, down to WR-1.5
- **Manufacturer**  
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- **Antenna Port**  
WR-05 Waveguide
- **Flange Type**  
UG-387/U-M, anti-cocking flange
- **Material**  
Brass
- **Finish**  
Gold Plated (high precision)
- **Weight**  
30 g
- **Polarization**  
Linear
- **Application Band**  
G-band mmWave / sub-THz
- **Reference Use**  
Gain comparison measurements
- **Manufacturer**  
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## APPLICATIONS

<b>mmWave Communication</b> Transmit and receive antenna for 140-220 GHz wireless links	<b>FOD Detection</b> Foreign object detection radar at G-band frequencies	<b>System Setups</b> Reliable feed antenna for millimeter-wave test benches
<b>Antenna Gain Test</b> Calibrated reference for gain comparison measurements	<b>Sub-THz Research</b> G-band source and receiver for experimental setups	<b>Test &amp; Measurement</b> Repeatable, precision-machined reference antenna