

22 – 40GHz Double Ridged Horn

TDR2240 is a singly polarized double-ridged horn antenna that operates from 22GHz to 40GHz, hence covering the major 5G NR FR2 bands, such as n257, n258, n260, n261 and NTN n510, n511, n512.

Although the antenna is measured from 22GHz, it should operate down to 15GHz, hence covering both Downlink and Uplink bands for 5G NTN.

Overall, TDR2240 features wideband response with compact size that is suitable for communications and T&M applications.



Features

- Covering major 5G NR FR2 bands
- 10dB to 14dB gain
- Return loss < 10dB
- 2.92mm connector

Applications

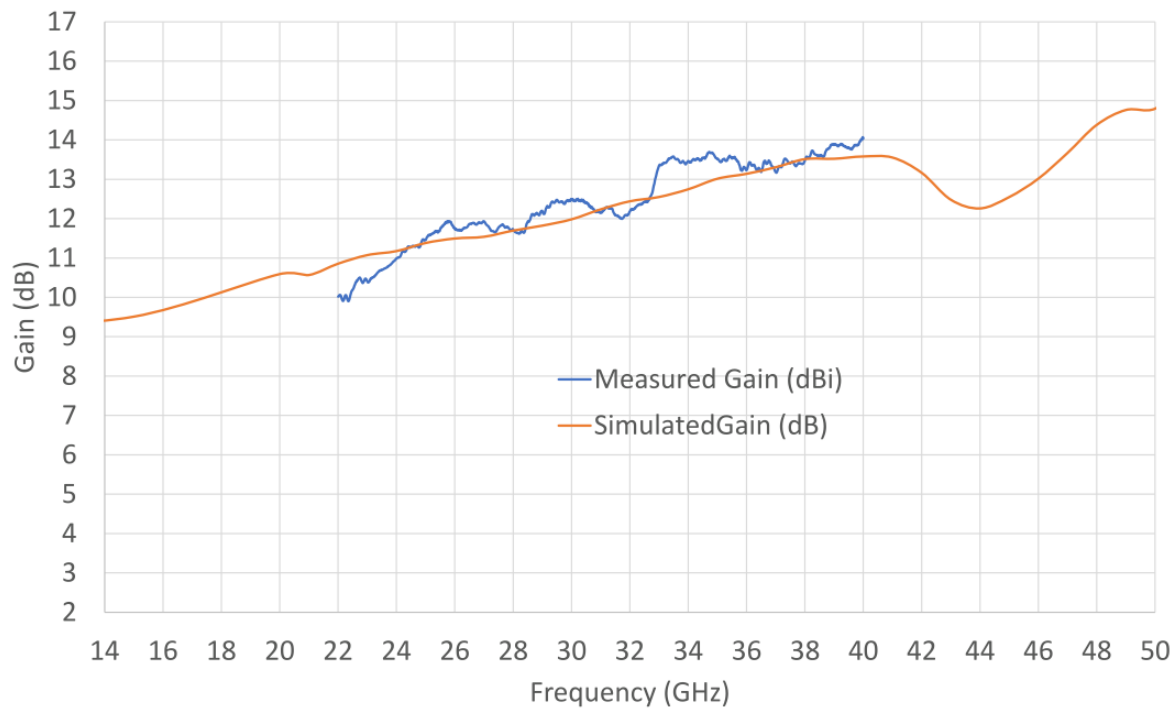
- 5G NR2 communications
- Satcom 5G NTN
- Radar
- Test and Measurement
- Instrumentation
- Remote Sensing

Specification

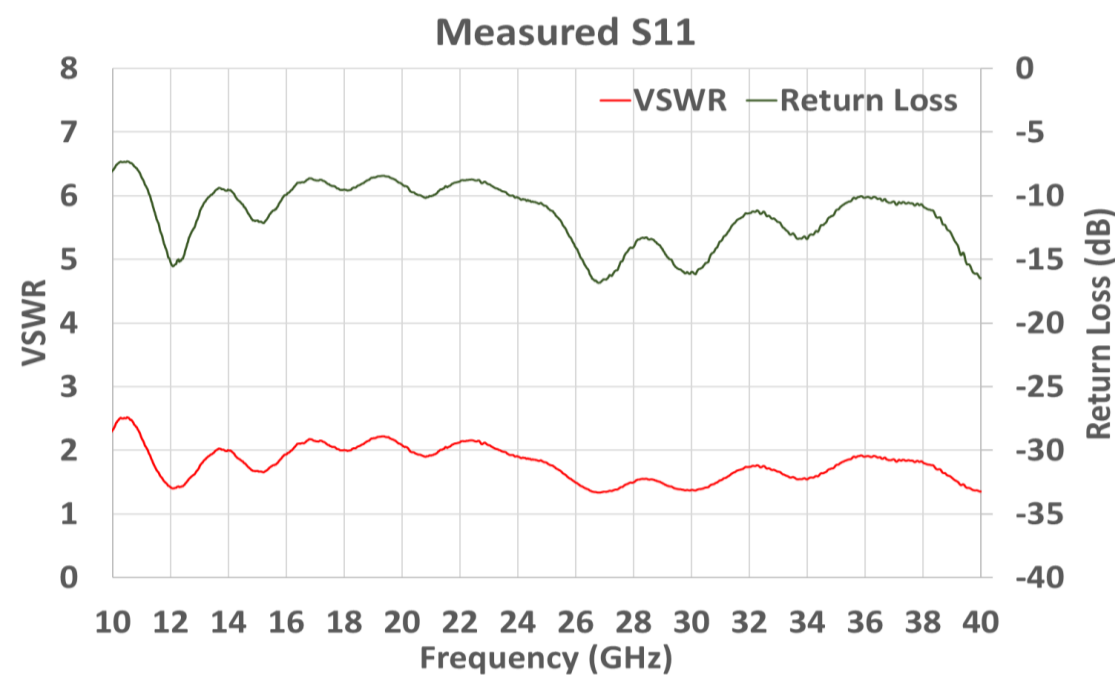
Parameters	Specifications
Frequency	22GHz to 40GHz
VSWR	< 2
Gain	10 dB to 13 dB
Connector	2.4mm Female
Physical Dimensions	3.5cm x 4.8cm
Polarization	Linear

Typical Measured Data

•Measured Antenna Gain

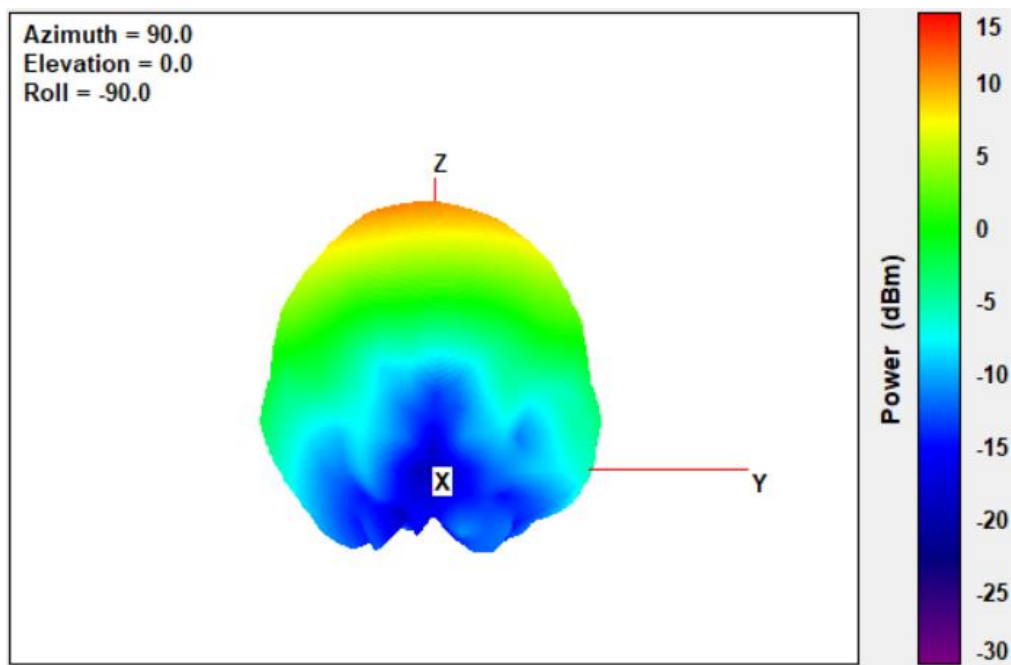


•Measured Return Loss

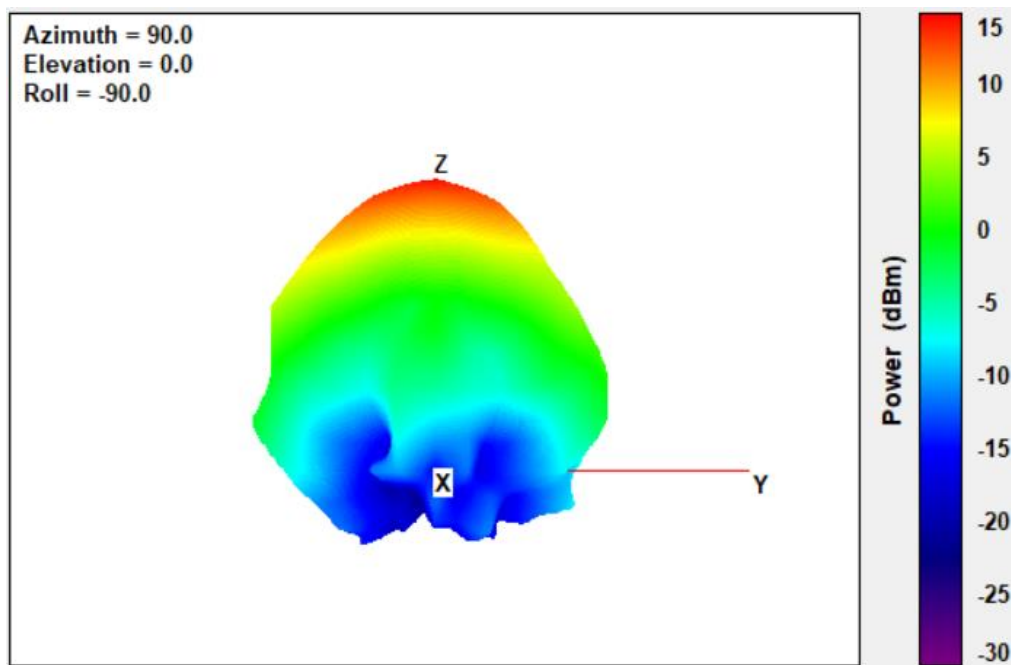


Typical Measured Data

- Measured 3D Antenna Pattern 28 GHz

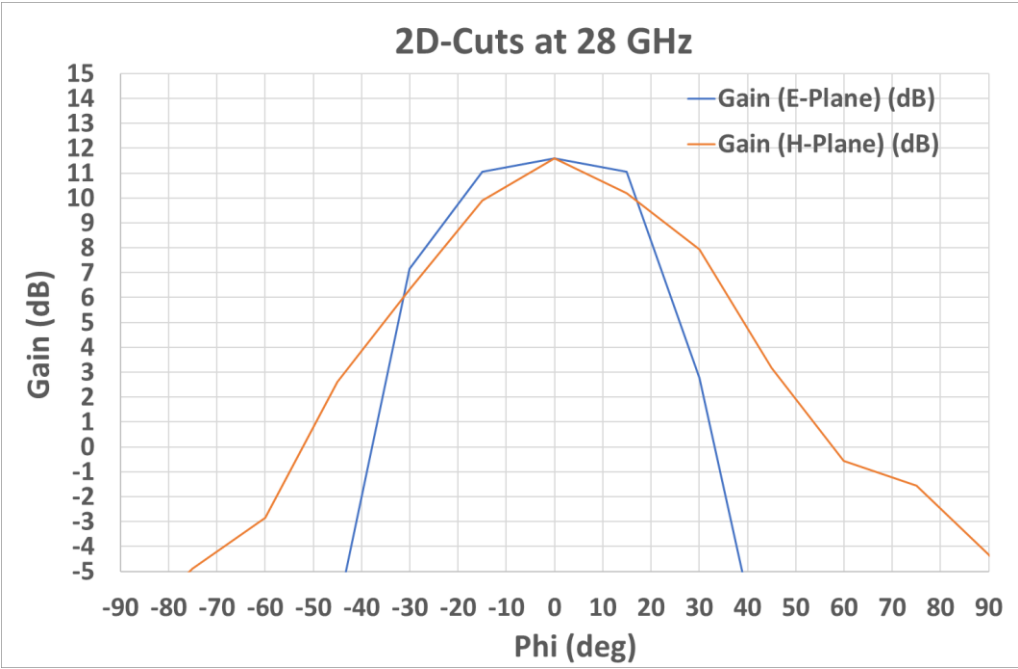


- Measured 3D Antenna Pattern 40 GHz

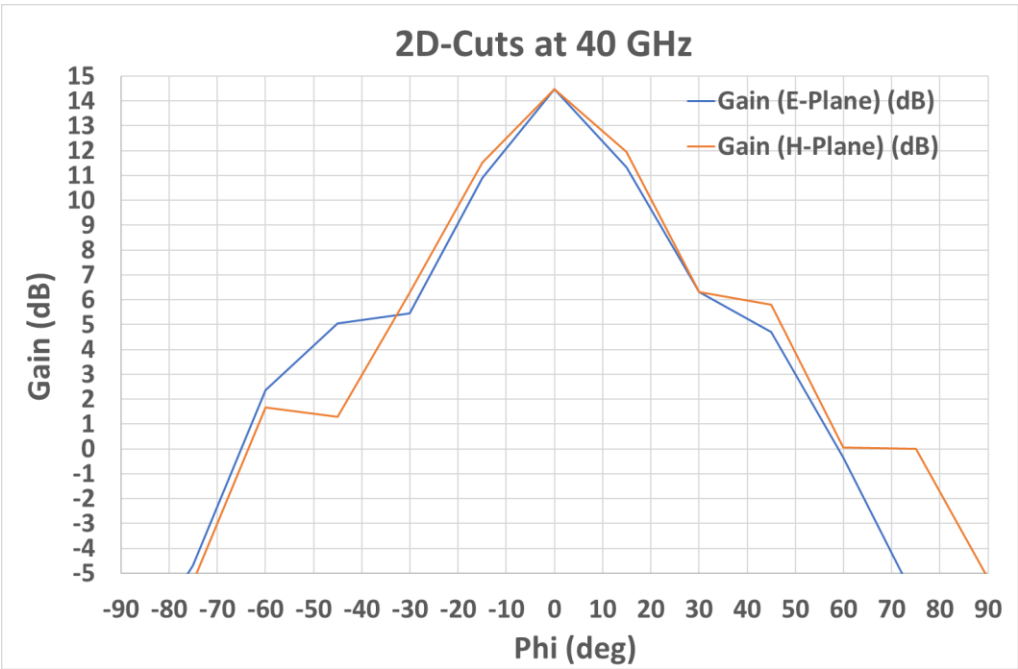


Typical Measured Data

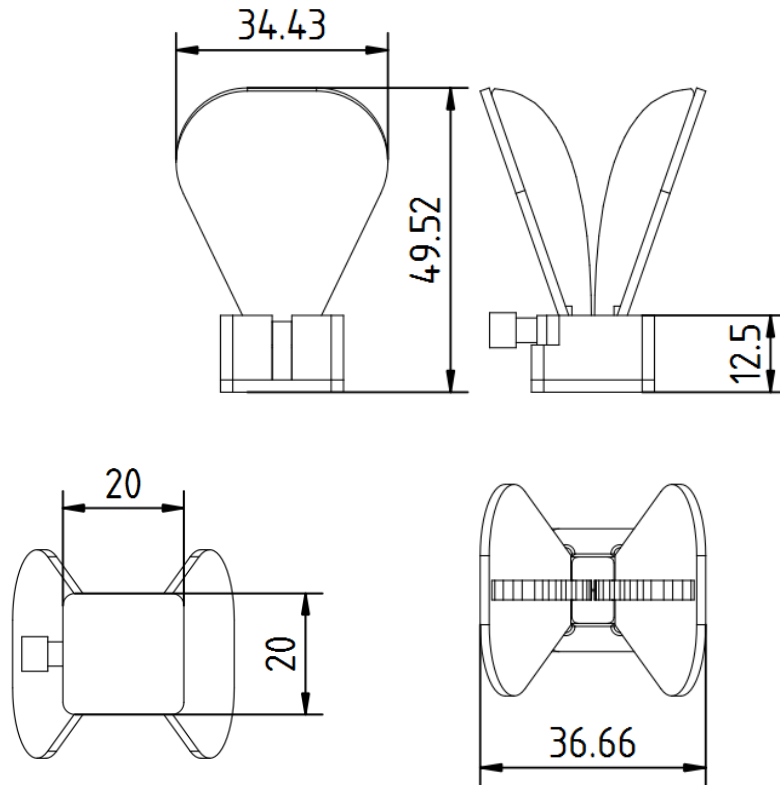
- Measured 2D Cut at 28 GHz



- Measured 2D Cut at 40 GHz



Outline / Dimensions



(Unit: mm)

Materials

- Aluminum 6061
- Surface finishing (Optional): gold plated 1 μ "
- Other materials can be customized.

Information:

For sales and support, please contact: info@timave.com

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