

## Quad Ridged, Dual Polarized, Horn Antenna, 2-18GHz

P/N: YX-CDL2-18-14

## Descriptions:

Model YX-CDL2-18-14 is a quad-ridged, dual polarized broadband horn antenna that operates from 2 to 18 GHz. The antenna includes an mounting plate with a 1/4-20 threaded hole and various other mounting holes for flexible mounting capacity. The RF ports are equipped with two female SMA connectors.



## Typical Applications:

- Ultra-Wide bandwidth
- High Isolation
- Reliable gain, low standing wave.
- Lightweight, high reliability, and long lifespan

## Applications:

- 5G mmW Systems
- Antenna Ranges
- Antenna Gain Measurements



## Electrical &amp; Environmental Characteristics

Operating Frequency	2-18 GHz
Gain	6-21dB
VSWR	2.5 typical
Polarization	Dual Linear
E-Plane 3 dB Beamwidth	10 to 73 degrees
H-Plane 3 dB Beamwidth	8 to 75 degrees
Port Isolation	-35dB max
Cross Polarization	-25dB max
Power Handling	15W(cw)
Specification Temperature	+25°C
Operating Temperature	-40°C~+85°C

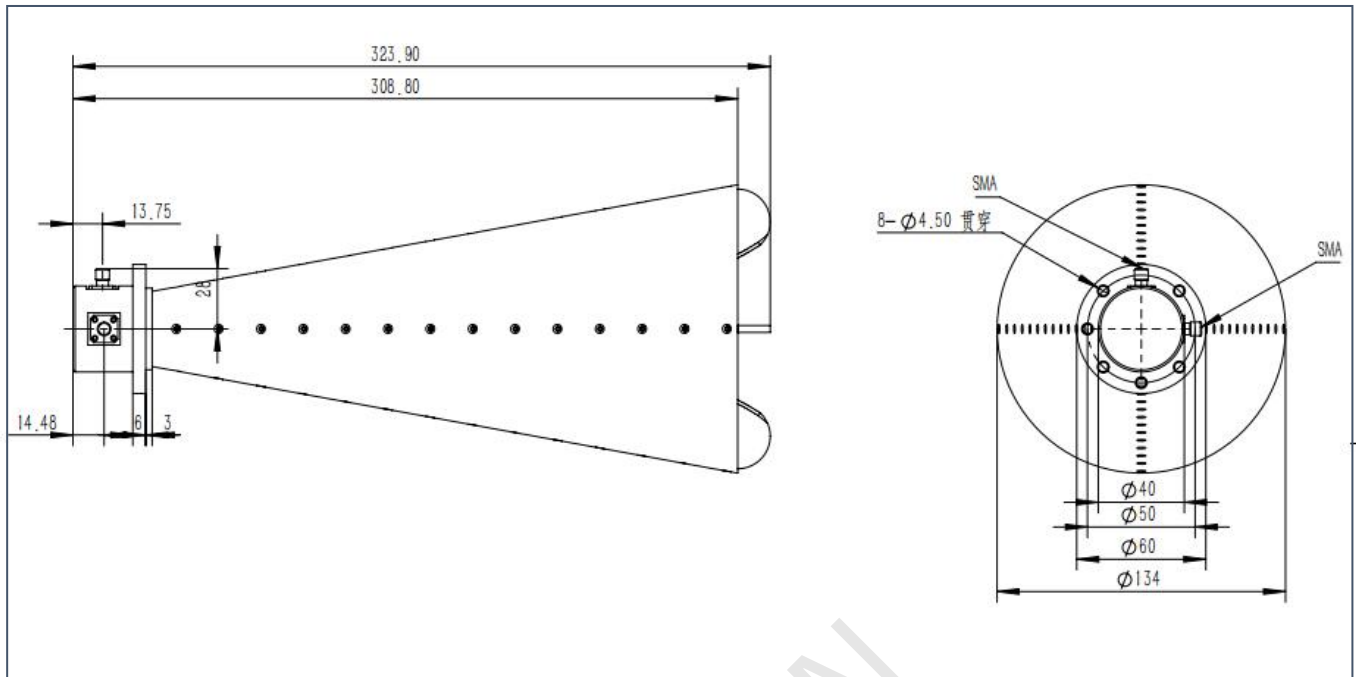
## Mechanical Specifications

Antenna Ports	SMA-Female
Mounting	Mounting Plate with 1/4-20 threaded hole
Material	Aluminum
Finish	Chem Film (Antenna), Black Anodized (Antenna Mount Plate)
Size	323.9*134mm
Weight (approx.)	N/A

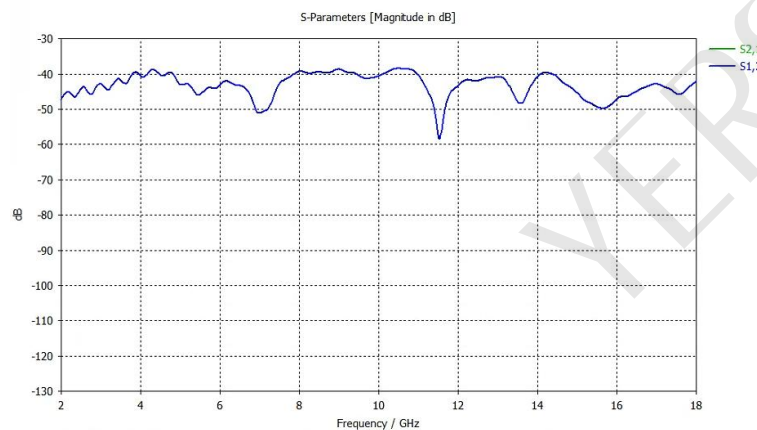
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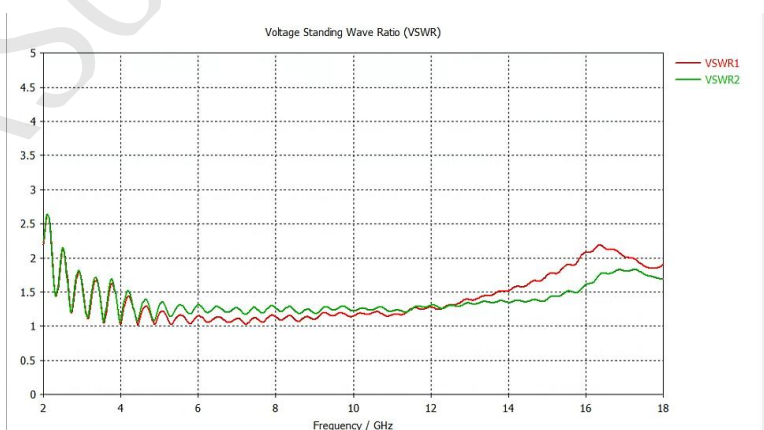
**Outline Drawing (Unit:mm)**



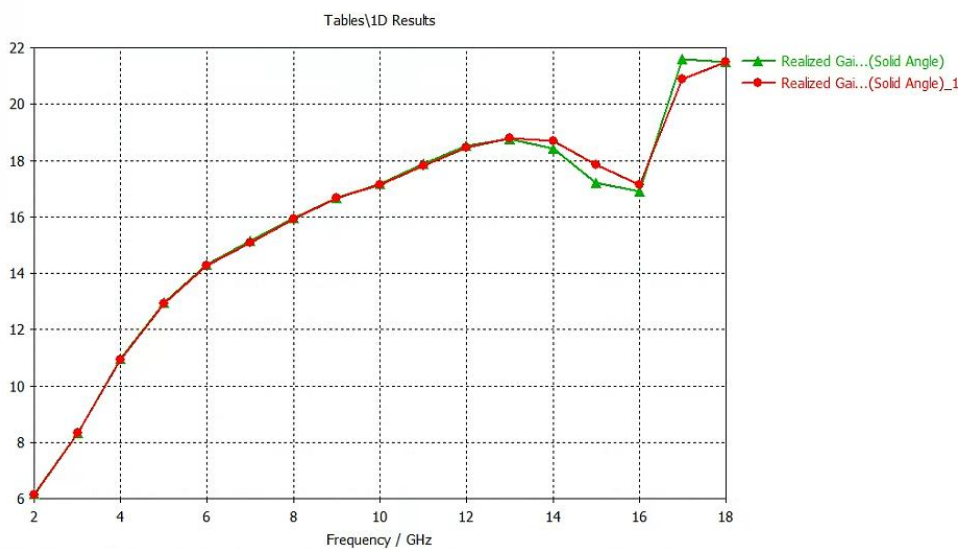
**Port Isolation**



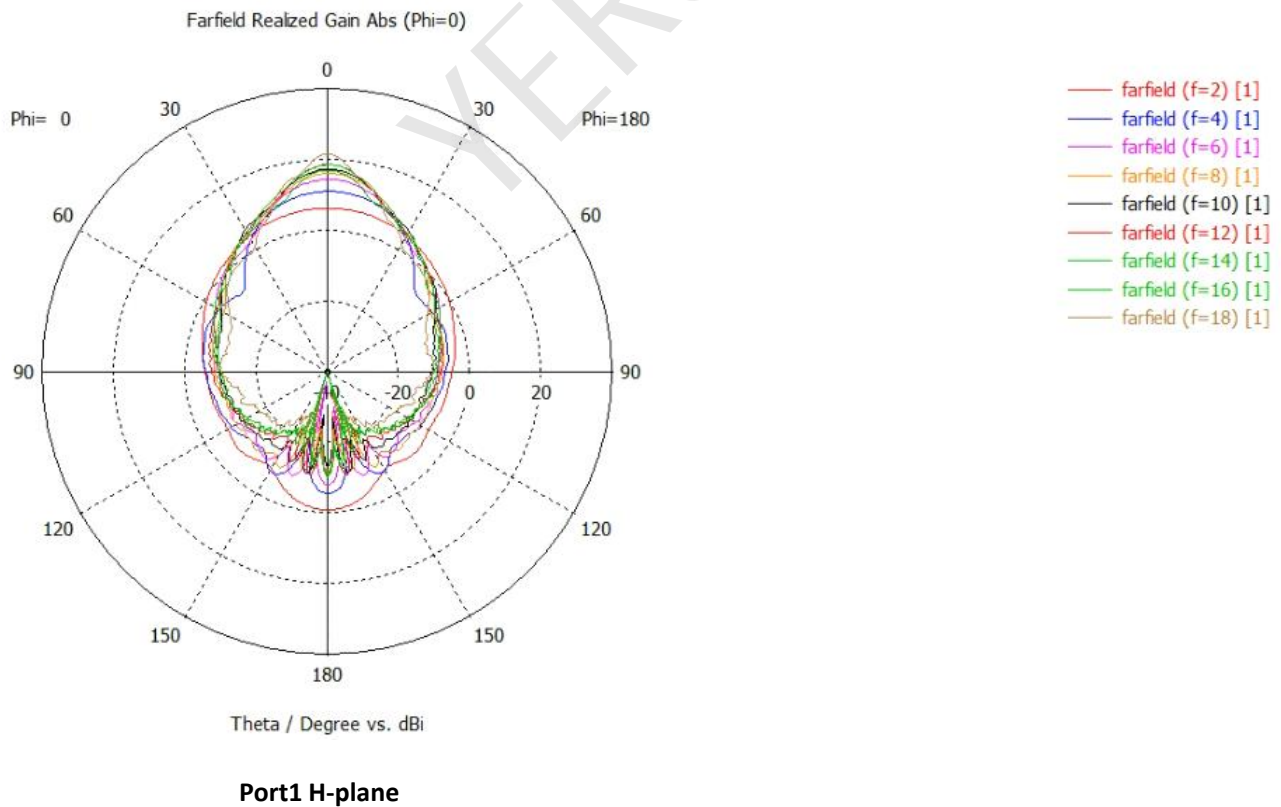
**VSWR**



**Gain VS Frequency**



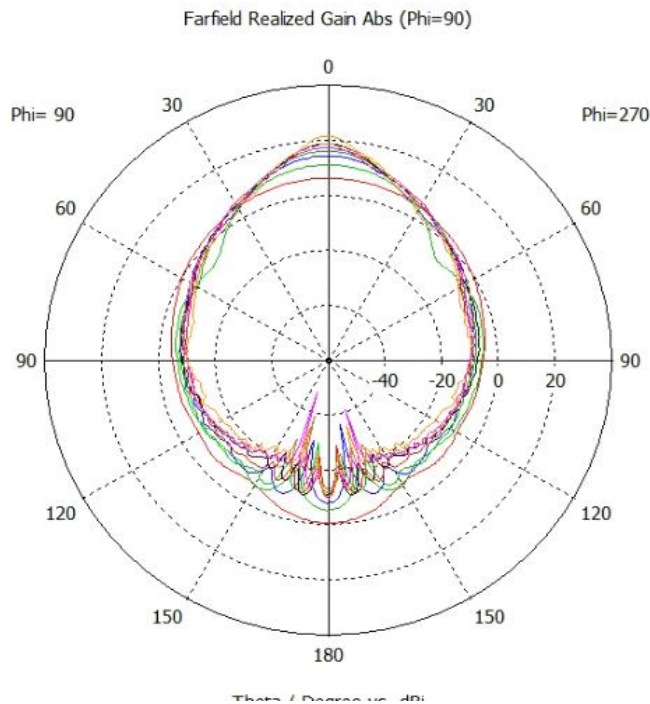
## Pattern



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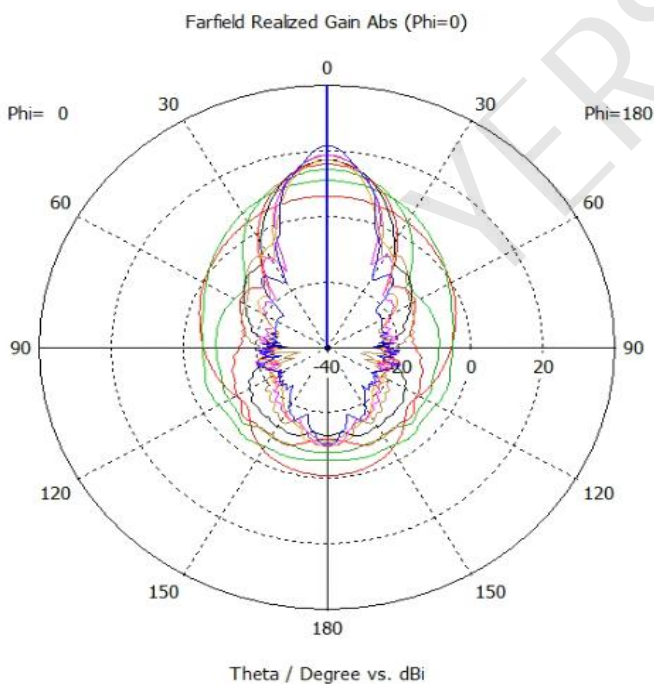
**P/N: YX-CDL2-18-14**

**Pattern**



- farfield (f=2) [2]
- farfield (f=4) [2]
- farfield (f=6) [2]
- farfield (f=8) [2]
- farfield (f=10) [2]
- farfield (f=12) [2]
- farfield (f=14) [2]
- farfield (f=16) [2]
- farfield (f=18) [2]

**Port2 E-plane**



- farfield (f=2) [2]
- farfield (f=4) [2]
- farfield (f=6) [2]
- farfield (f=8) [2]
- farfield (f=10) [2]
- farfield (f=12) [2]
- farfield (f=14) [2]
- farfield (f=16) [2]
- farfield (f=18) [2]

**Port2 H-plane**

Note : All of the aboving data come from simulating.

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