

Descriptions:

Model YX-CDL24-44-16.5 is a quad-ridged, dual polarized broadband horn antenna that operates from 22 to 44 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 2.4 mm connectors.



Features:

- 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



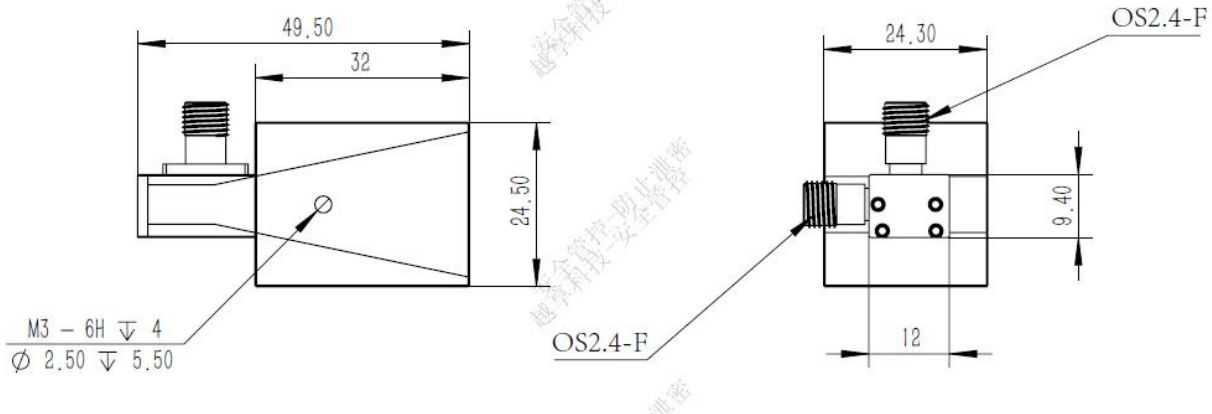
Electrical & Environmental Characteristics

Operating Frequency	22-44 GHz
Gain	15dB typical
VSWR	2.0 max
Polarization	Dual Linear
E-Plane 3 dB Beamwidth	25 to 20 degrees
H-Plane 3 dB Beamwidth	35 to 24 degrees
FBR(Front and Back Ratio)	30-47 dB(H-port) / 29-39 dB(V-port)
Port Isolation	-25dB max
Cross Polarization	-25dB max
Power Handling	15W(cw)
Specification Temperature	+25°C
Operating Temperature	-40°C~+85°C

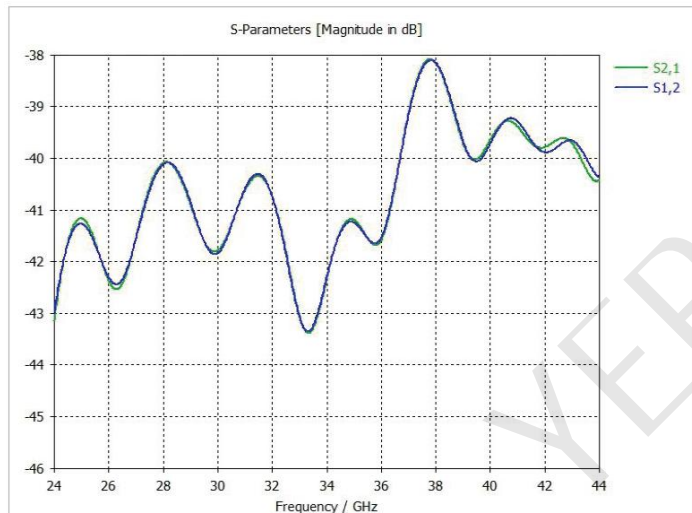
Mechanical Specifications

Antenna Ports	OS2.4-Female
Mounting	Mounting Plate with 1/4-20 threaded hole
Material	Aluminum
Finish	Chem Film (Antenna), Black Anodized (Antenna Mount Plate)
Size	49.5*24.5*24.5mm
Weight (approx.)	88g

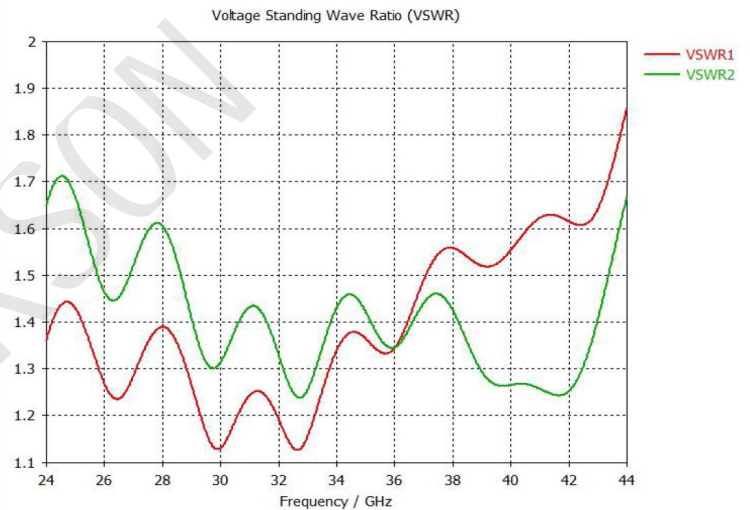
Outline Drawing(Unit:mm)



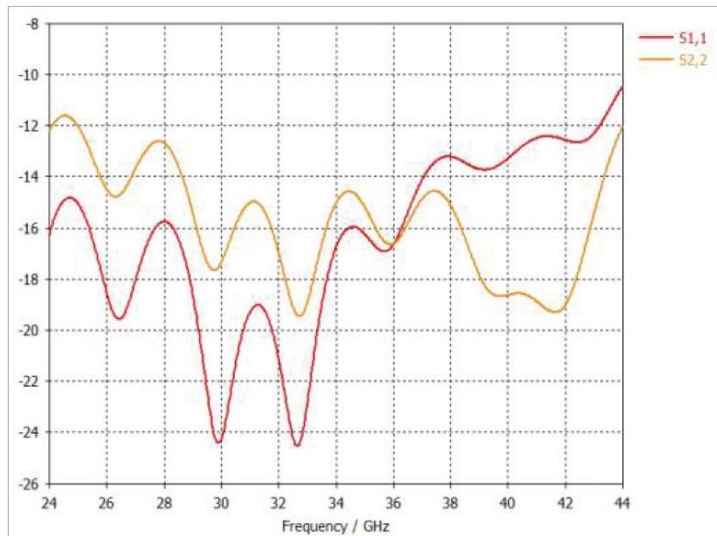
Port Isolation:



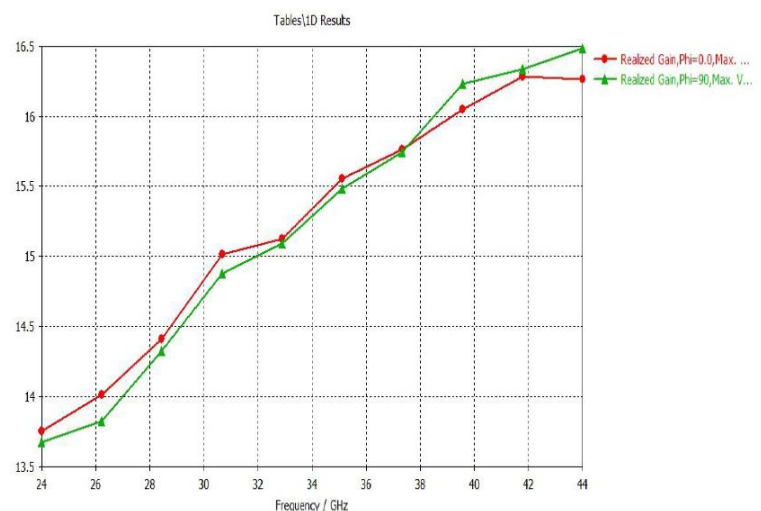
VSWR:



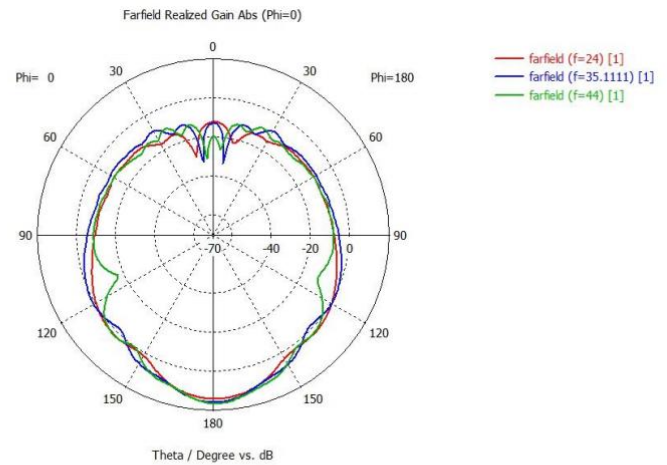
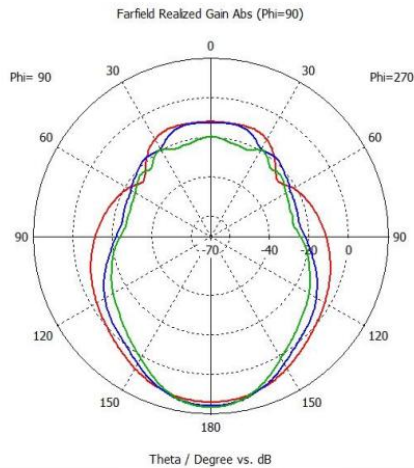
Return Loss:



Gain VS Frequency:

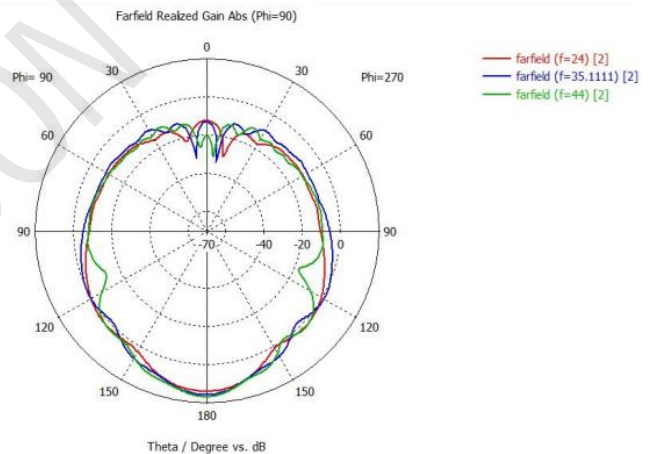
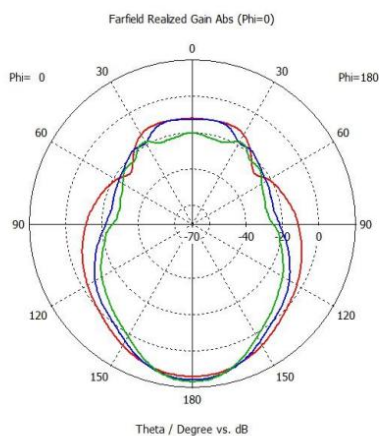


Pattern:



PORT 1 H PLANE

PORT 1 E PLANE



PORT 2 H PLANE

PORT 2 E PLANE

Note : All of the above data come from simulating.