

**Descriptions:**

Model **YX-SGH22-20OS2.4F** is a standard gain horn antenna that operates from 33~ 50 GHz, it is linear polarization, The RF port is equipped with wave-guide flange which is optional.

**Features:**

- Wide-band Frequency, High Gain
- Excellent Directional, linear Polarization
- Lightweight, high reliability, and long lifespan

**Applications:**

- Antenna Communication System
- Antenna Measurement and Calibration
- Research and Experimentation

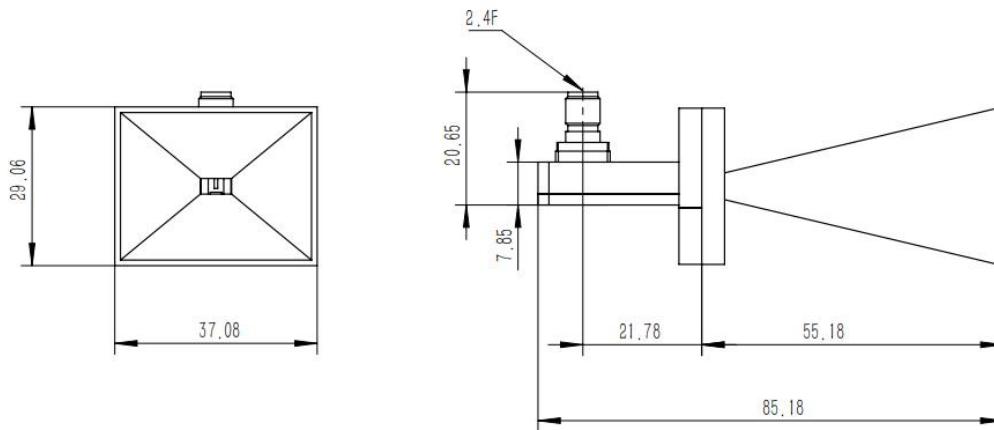
**Electrical & Environmental Characteristics**

Frequency	33-50GHz
Gain	20 dB typical
VSWR	1.5 max
Polarization	Linear
E-Plane 3 dB Beam width	16 to 12 degrees
H-Plane 3 dB Beam width	18 to 13 degrees
Cross Polarization	-25dB max
Specification Temperature	+25°C
Operating Temperature	-40°C~+85°C

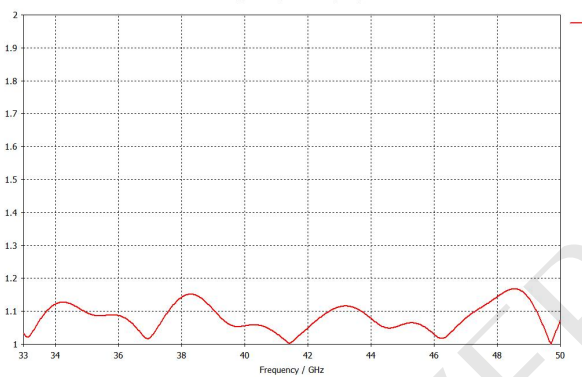
**Mechanical Specifications**

Connector	OS2.4-Female/Optional
Impedance	50Ω
Material	Brass
Finishing Inside and Outside	Gold plating inside and outside
Size	55.18*37.08*29.06 mm
Weight (approx.)	/

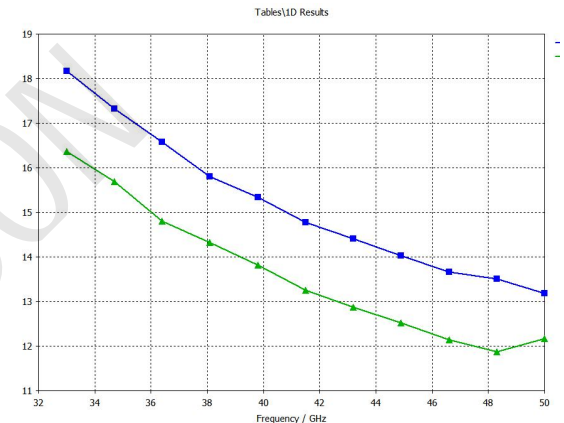
### Outline Drawing(Unit: mm):



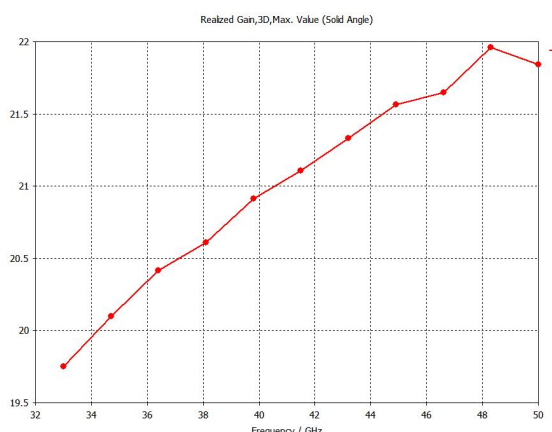
### VSWR VS Frequency



### 3dB Beam width



### Gain VS Frequency Plots



Notice: All of the above data is simulation for reference.

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