

Features

- Precise tracking
- High gain
- Modular design with high integration
- Light-weight
- High reliability with long service life
- High-performance servo controller

Applications

Radar Systems

Military and Space

Microwave Radio Systems

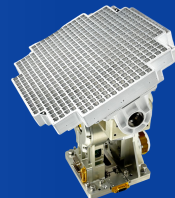
Satellite Communication Systems

Description

The Ka-band Slot Antenna consists of a slotted waveguide array antenna and a servo controller. The antenna radiation frequency band is 32.3–33 GHz. It supports the transmission and reception of left-hand circularly polarized (LHCP) signals. The antenna gain is greater than 35 dBi, and the axial ratio is less than 3 dB. The product features a compact structure and can achieve 2D mechanical scanning.

Technical Specifications

Parameters	Antenna	Units
Frequency Range	32.3 – 33	GHz
VSWR	≤ 1.5	/
Gain	≥ 35	dBi
Axial Ratio	≤ 3	dB
Polarization	RHCP	/



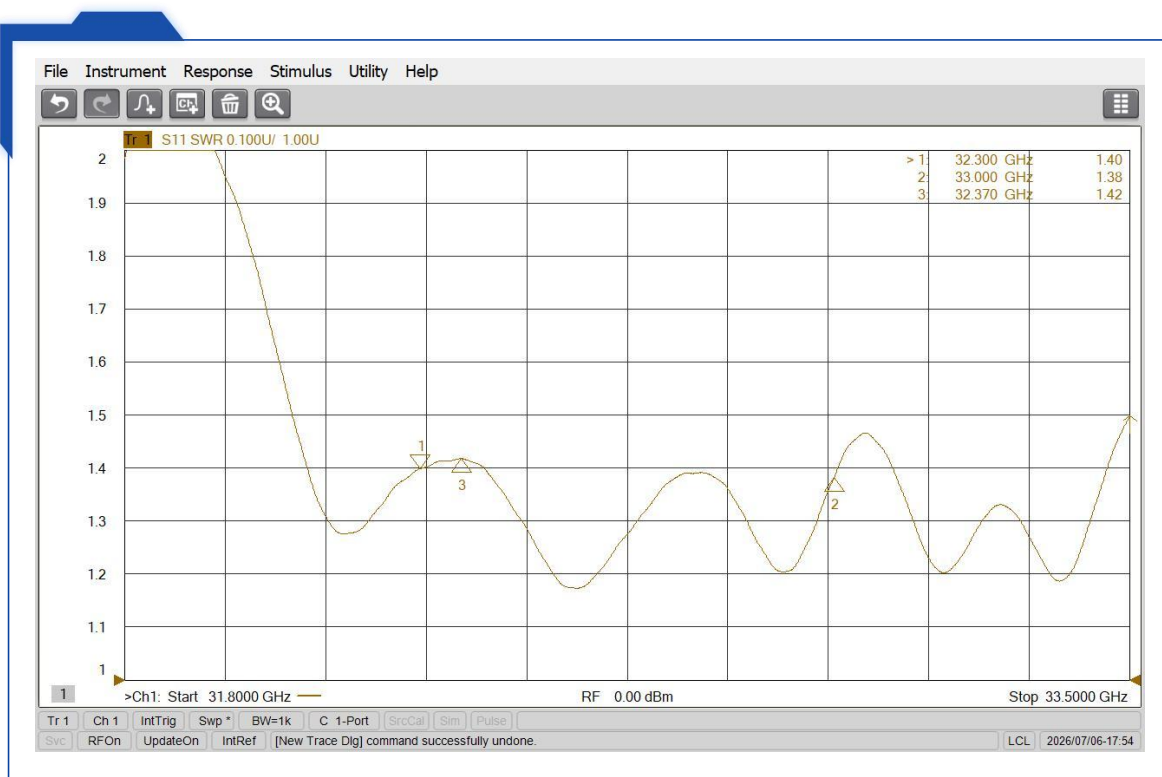
Technical Specifications

Parameters	Antenna	Units
Element Dimensions	Locked: 195 × 215.6 × 197.5 Extended: 195 × 237 × 197.5	mm
Weight	4.45	kg
Pointing Accuracy	≤0.1	deg
Tracking Angle	±80	deg
Port Connector	BJ320	/

Notes:

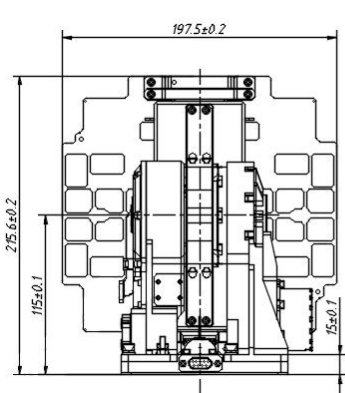
Values at 25°C, sea level.

Typical Performances

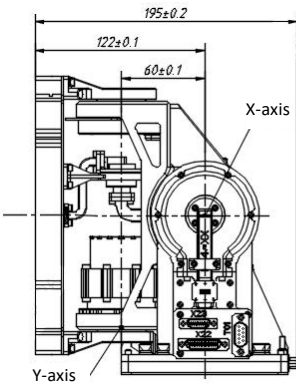


Performance Test Curve

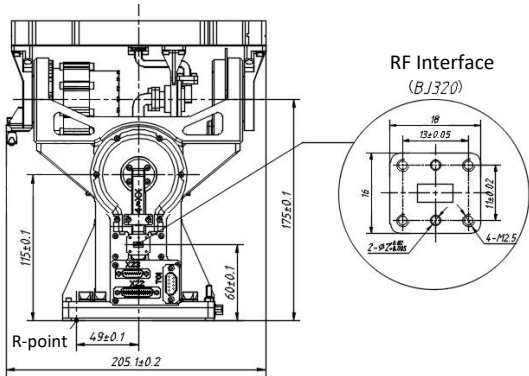
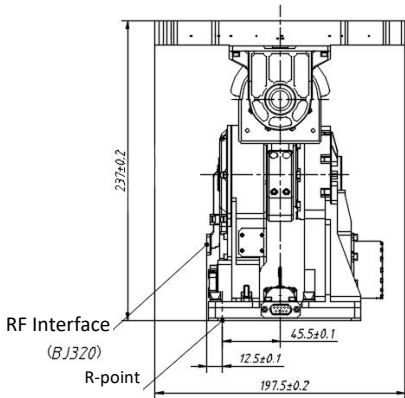
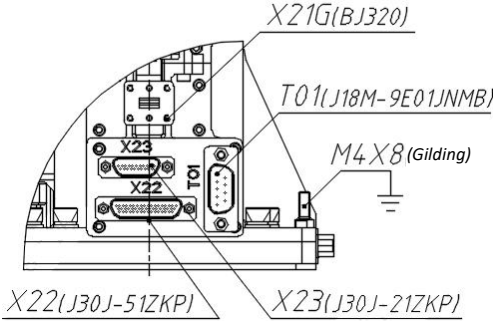
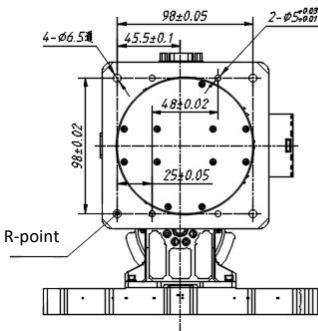
Outline Drawing:



Mechanical interface



Electrical interface



- NOTES:**
- 1.UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
 - 2.ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.
 - 3.DIMENSIONS ARE IN mm.



西安星航通信科技有限公司
XI'AN SATNAVCOM TECHNOLOGY CO., LTD.

Tel: +86 135 1916 6509

Website: www.mwglobe.com

E-Mail: sales@mwglobe.com

PART NAME

Ka-band Slot Antenna

JL2.941.0022

REV

DATE

V1.0

2026.6.29

SCALE 1:1

