

Shenzhen HX Antenna Co., Ltd.

SPECIFICATION FOR APPROVAL

Company:

Product:

4G Cabinet Antenna

Model:

HX-JG4G-4616FS-1000D1

Customer
P/N:

Specification:

Refer to this approval

Date:

2023-04-06

Customer Signature:

Engineering	Quality	Approved

Shenzhen HX Antenna Co., Ltd:

Engineering	Quality	Editor
黄小宇	张欢	邹佳谣

1. Antenna Specification

Design Parameters	Specification	Unit
Antenna Type	Cabinet antenna	N/A
Working Frequency	700-2700	MHZ
Gain	5	DBi
Antenna Efficiency	5~45	%
VSWR	<1.8	N/A
Axial Ratio	$\leq 5\text{dB}$	max
Polarization	Vertical	N/A
Radiation Pattern	Omni-directional	N/A
Impedance	50	ohm
Power Handling	33	dbm
Interface	SMA female connector	N/A
Antenna Dimension	46*16	mm
Weight	No specific requirement	kg
Operating Temperature	-30-70	°C
Storing Temperature	-30-70	°C

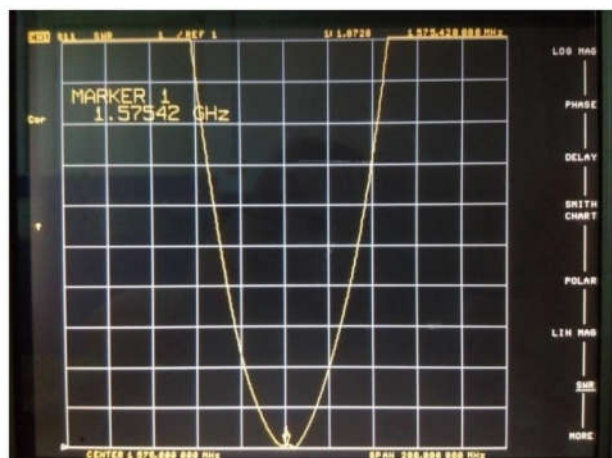
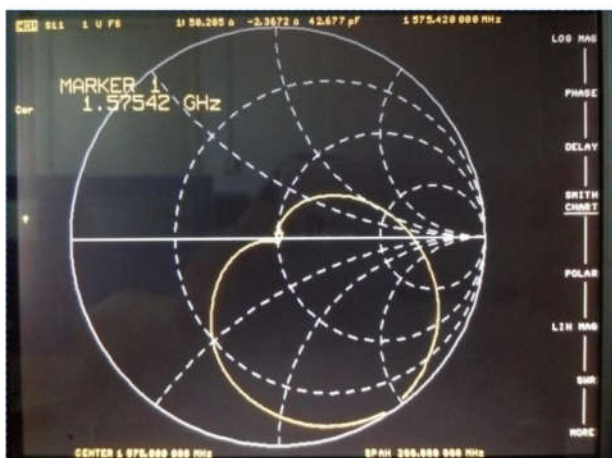
2. Antenna Appearance

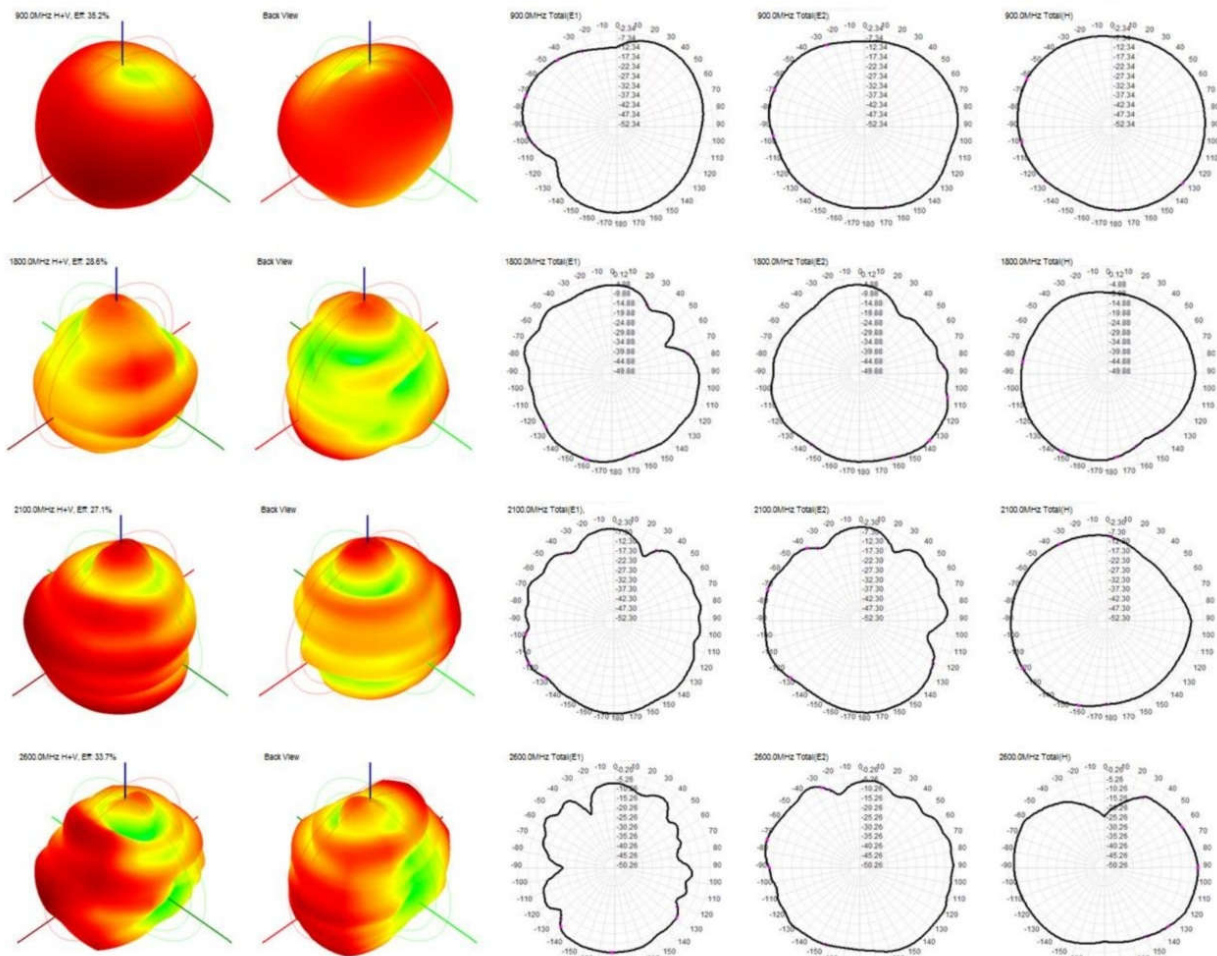


Note:

- 1) The antenna parameters are determined based on simulation environment tests, and there may be performance deviations for different products.
- 2) The antenna function is sensitive. If there are any changes in the surrounding structure of the main body, please notify us for evaluation.

3. VSWR / Smith Chart / 2D/3D Radiation Pattern



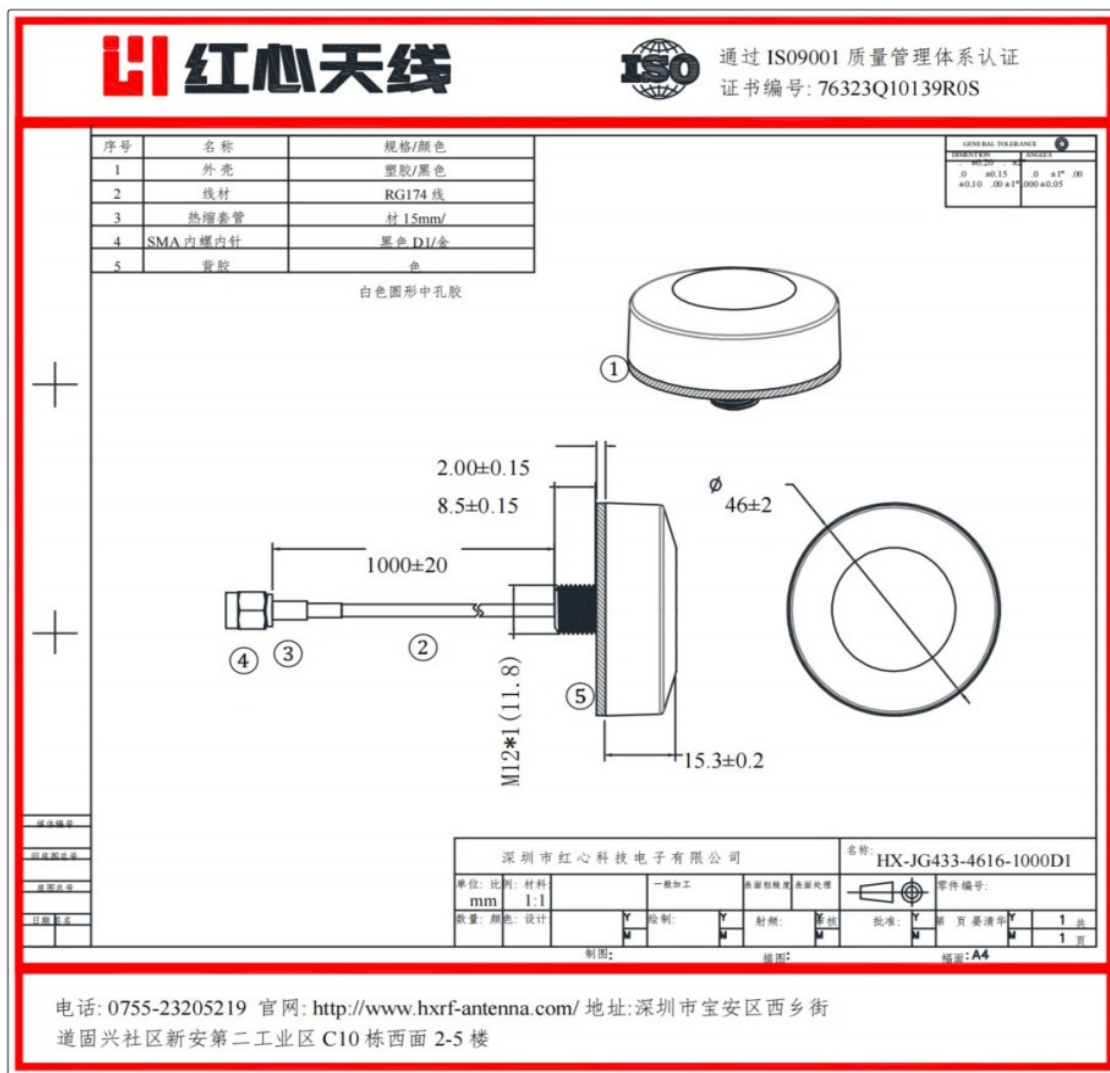


Frequency ID	1	3	5	7	8	10	12	14	16	17	19	20	21	22	23	24	25
Frequency (MHz)	700	800	900	1000	1800	1900	2000	2100	2200	2300	2400	2450	2500	2550	2600	2650	2700
Efficiency(%)	5.2	10.68	15.84	19.95	24.38	28.6	32.5	36.4	39.2	42.1	38.59	34.62	29.92	25.28	21.05	15.95	10.95
Gain(dBi)	3.68	4.23	5.00	5.00	5.81	6.12	6.56	6.86	6.97	7.11	6.86	6.72	6.10	5.41	4.71	4.15	3.62
Peak Gain Position(Theta)	132.00	100.00	104.00	178.00	79.00	81.00	92.00	91.00	93.00	60.00	173.00	170.00	143.00	172.00	145.00	180.00	176.00
Peak Gain Position(Phi)	210.00	330.00	300.00	90.00	120.00	120.00	150.00	120.00	150.00	120.00	150.00	150.00	90.00	150.00	360.00	180.00	270.00

4. Storage Requirement

Working Temperature: -30 to 70°C
Storage Temperature: -30 to 70°C

5. Overall Dimensions



6. Precautions

- 1) Do not apply excessive stress to the product. Do not attempt to bend or disassemble and reassemble the product, as this will cause damage to the components or parts.
- 2) Do not expose the product directly to open flames.
- 3) This specification is applicable only to the function of the HX-JG433-4616-1000D1 product when used as a single unit.