

Drones WIFI

WLY-DRO-11SM115



Electrical Characteristics

Parameter	Specification
Frequency	2400 ~ 2500 MHz
V.S.W.R.	<= 2.5
Peak Gain	3.3dBi
Radiation Pattern	Omni-Directional
Polarization	Linear
Impedance	50 Ohm

Material & Mechanical Characteristics

Parameter	Specification
Material of Radiator	Copper / RF PCB
Cable Type	RG402
Connector Type	SMA (Optional)
Dimensions	40.5 * 69.8 * 72 mm
Weight	15g

Environmental

Parameter	Specification
Operation Temperature	- 40 °C ~ + 75 °C
Storage Temperature	- 40 °C ~ + 80 °C

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ISO 9001



Key Technical Specifications & Features

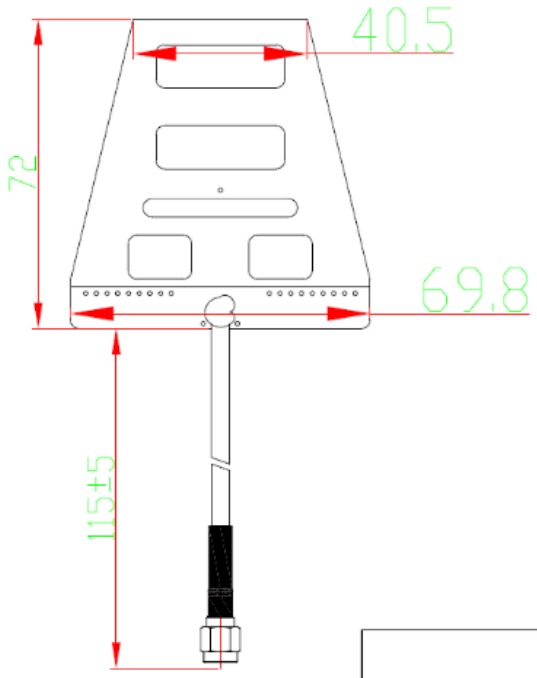
- Frequency Range: 2400–2500 MHz (2.4 GHz ISM Band), providing broad compatibility with standard Wi-Fi drone video transmission and control systems.
- Peak Gain: 3.3dBi for stable, 360° omnidirectional signal coverage.
- Summary of Application Advantages:
- Designed specifically for UAV communications, this high-performance antenna delivers optimal impedance matching, a compact lightweight profile, and versatile installation options. It is ideal for drone ground stations, remote controllers, and HD video transmission systems.

Applications:

- UAVs / Drones
- Ground Control Stations (GCS) & Remote Controllers
- Handheld Communication Systems
- Automotive & Recreational Vehicles

RoHS
Compatible

SIGN	DATE	DESCRIPTION	APPROVER
3			
2			
1			



NO	PART NAME	DESCRIPTION	Q. TY
3	SMA接頭	CU	1
2	线材	RG402黑色线	1
1	PCB	FR4	1

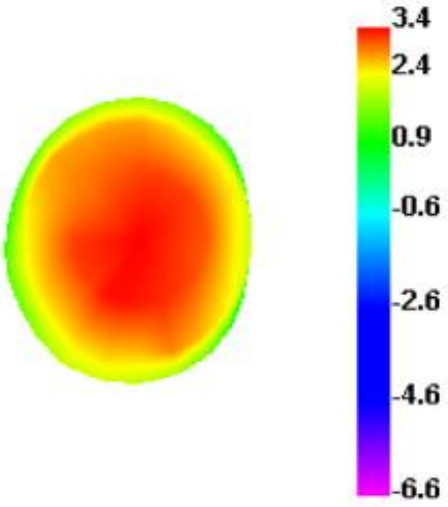
TITLE: PART NO.: Antenna
PART NO.: DWG NAME:
APPROVED BY | CHECKED BY | DESIDNED BY: TH 2026.10.08 | UNITS: mm | SCALE: 1/1 | REVISION: A
Tolerance: X.X ±0.2, X.XX ±0.1, X° ±1°



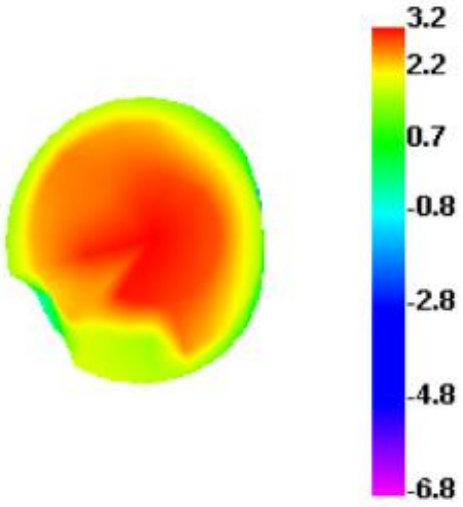
Antenna Gain Test

Antenna Radiation Pattern

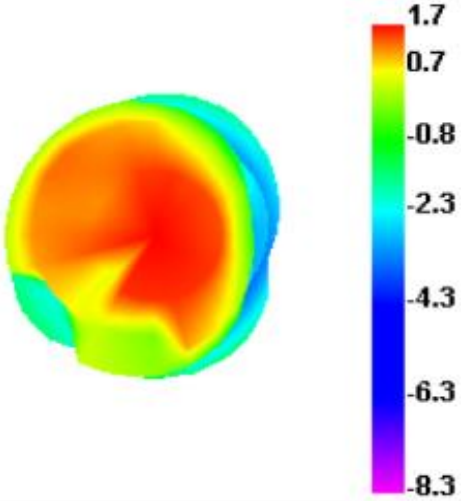
2400.000MHz



2450.000MHz



2500.000MHz



Gain and Efficiency Test Data

Freq	(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Effi	(%)	27.95	26.43	25.02	25	25.58	26	24.6	23.28	22.85	22.52	21.61
Effi	(dB)	-5.54	-5.78	-6.02	-6.02	-5.92	-5.85	-6.09	-6.33	-6.41	-6.48	-6.65
Gain	(dBi)	3.37	3.23	3.11	3.16	3.23	3.18	2.77	2.37	2.15	1.96	1.71



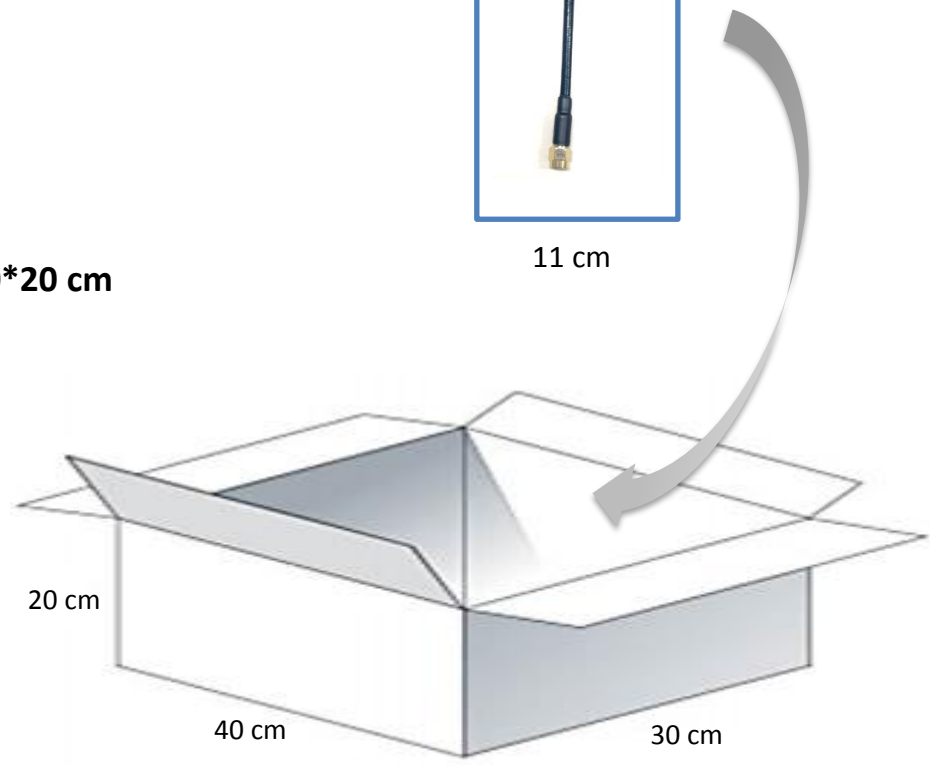
Packaging

Sealing



***1 pc Antenna**
PE bag / each

250 pcs per carton
Carton Dimensions: 40*30*20 cm



CE FC RoHS COMPLIANT DNV **ISO 9001**