

Drones WIFI

UWB-DRO-71SM120



Electrical Characteristics

Parameter	Specification
Frequency	5150 ~ 5850 MHz
V.S.W.R.	<= 2.0
Peak Gain	3.6dBi
Radiation Pattern	Omni-Directional
Polarization	Linear
Impedance	50 Ohm

Material & Mechanical Characteristics

Parameter	Specification
Material of Radiator	Copper/ ABS
Cable Type	RG402 120mm
Connector Type	SMA (Optional)
Dimensions	Φ17.3 * 16.5mm
Weight	10g

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

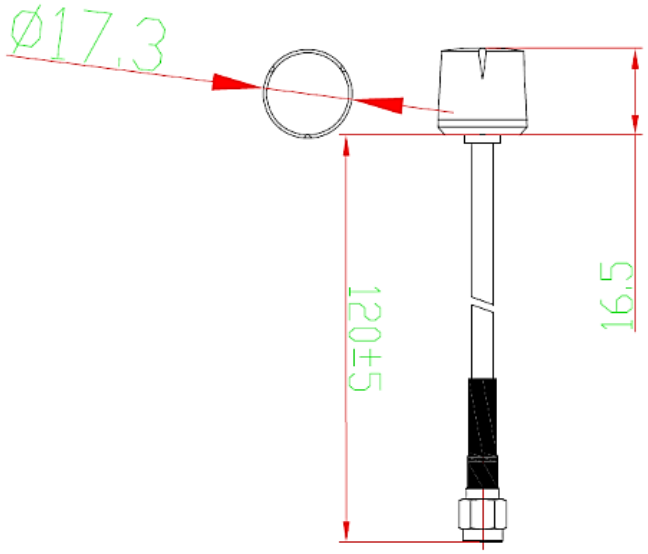
- **Frequency Support:**
- **5 GHz Operating Band:** Operates across 5150–5850 MHz (5 GHz), offering broad compatibility with standard Wi-Fi drone video transmission and control systems.
- **Optimized Signal Gain:** Features a 3.6dBi gain to deliver stable, omnidirectional signal coverage.
- **Summary of Application Advantages:**

  This antenna provides a dedicated drone communication solution engineered for reliable RF performance. Combining strong impedance matching, wideband 5 GHz coverage, a lightweight form factor, and flexible mounting options, it is well-suited for drone ground stations, remote control receivers, and high-definition video transmission systems.

Applications :

Automotive, recreational, UAV, handheld system.

RoHS
Compatible



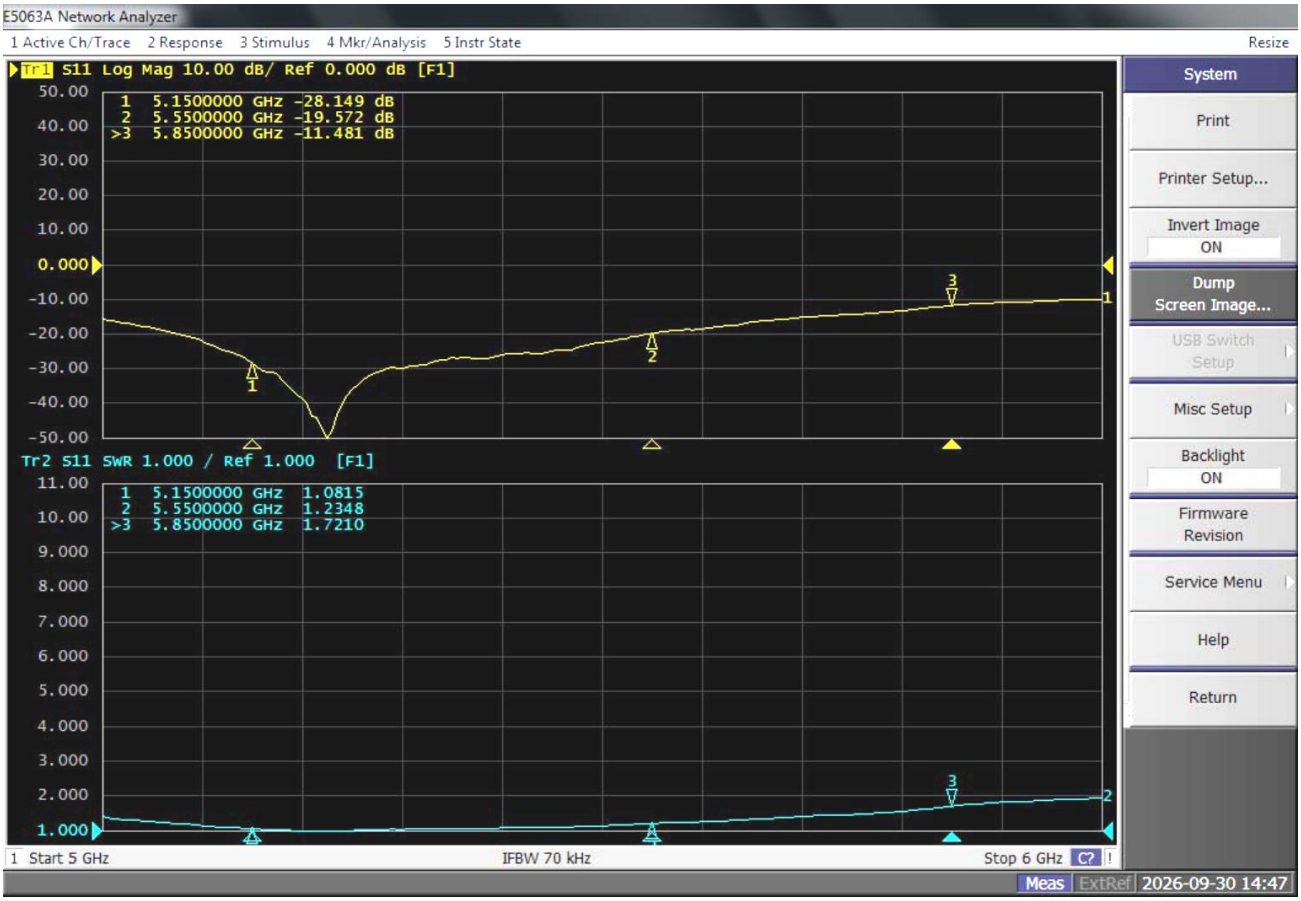
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NO	PART NAME	DESCRIPTION	Q. TY
3	SMA接頭	CU	1
2	线材	RG402黑色线	1
1	天线外壳	ABS	1

TITLE: PART NO：Antenna

PART NO.:		DWG NAME:	
APPROVED BY	CHECKED BY	DESIDNED BY	Tolerance
		TH 2025.10.08	UNITS: mm SCALE: 1/1 REVISION: A

X.X ±0.2
X.XX ±0.1
X° ±1°

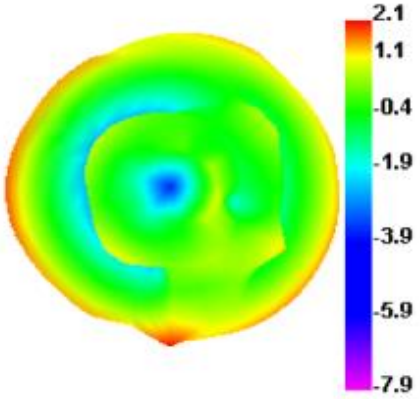




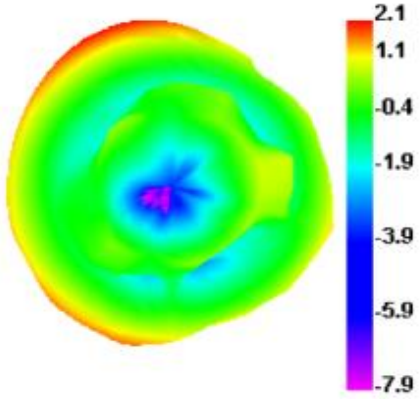
Antenna Gain Test

Antenna Radiation Pattern

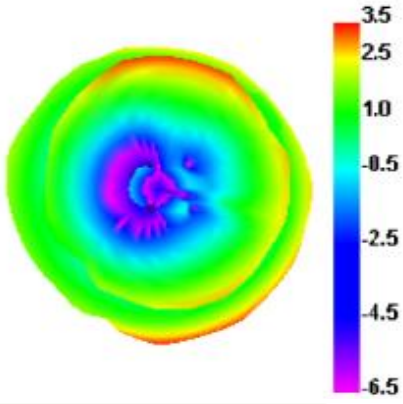
5150.000MHz



5500.000MHz



5850.000MHz



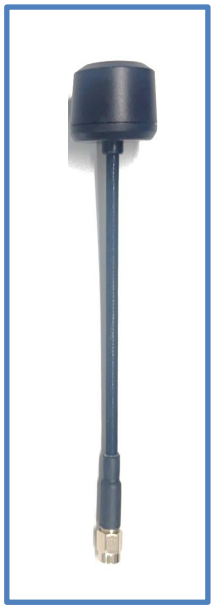
Gain and Efficiency Test Data

Freq	(MHz)	5150	5250	5350	5450	5550	5650	5750	5850
Effi	(%)	63.47	68.6	71.57	65.31	72.56	81.29	79.52	70.04
Effi	(dB)	-1.97	-1.64	-1.45	-1.85	-1.39	-0.9	-1	-1.55
Gain	(dBi)	2.12	2.31	2.57	2.06	2.89	3.29	3.67	3.48



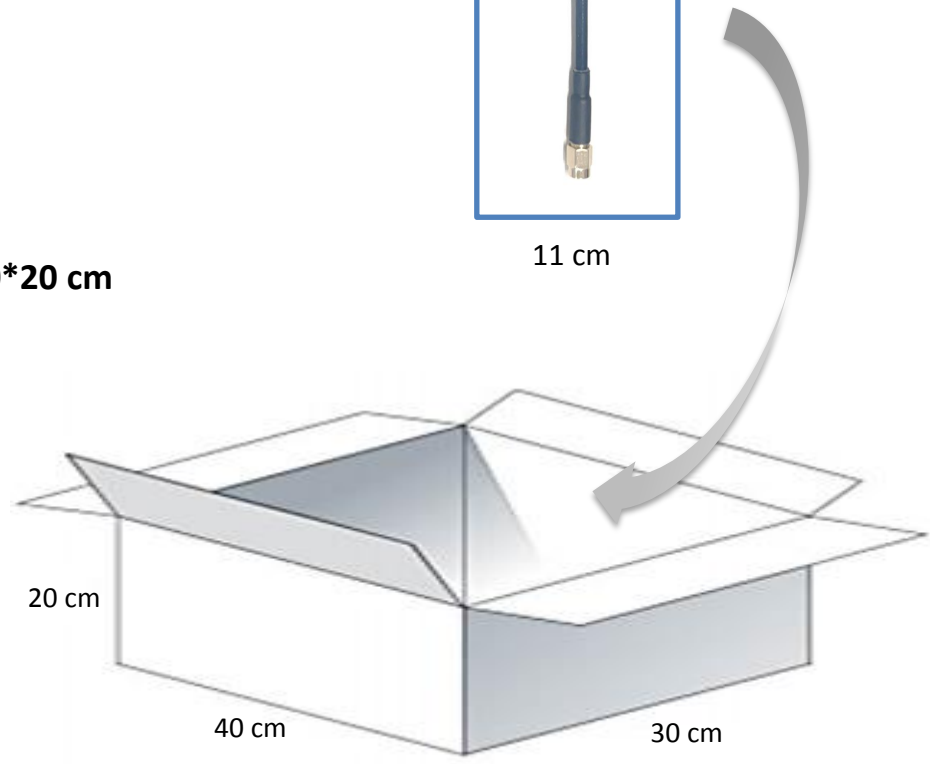
Packaging

Sealing



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

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



CE FC RoHS COMPLIANT DNV **ISO 9001**