

Drones WIFI

UWB-DRO-73SM120



Electrical Characteristics

Parameter	Specification
Frequency	5150 ~ 5850 MHz
V.S.W.R.	<= 2.20
Peak Gain	4.2dBi
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	Φ34.15 * 17mm
Weight	15g

Environmental

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

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CE FC RoHS COMPLIANT DNV ISO 9001



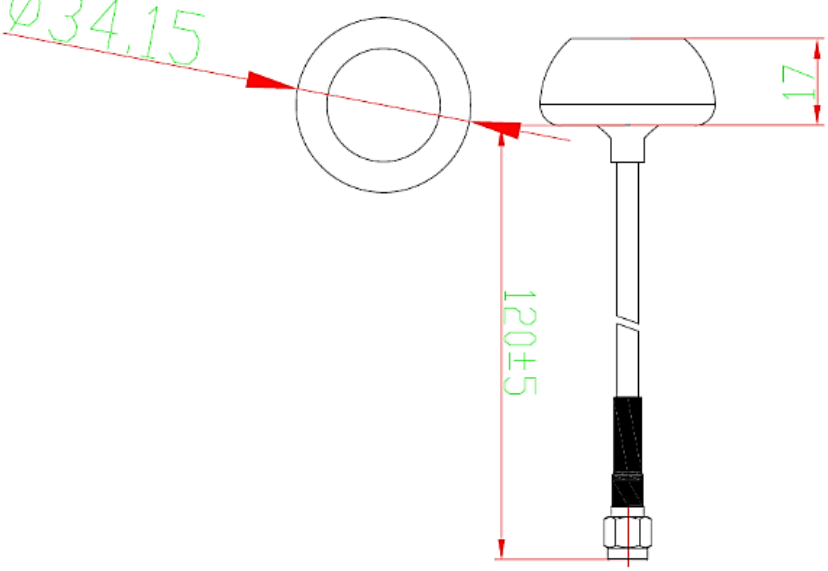
Key Technical Specifications & Features

- **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 4.2dBi 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



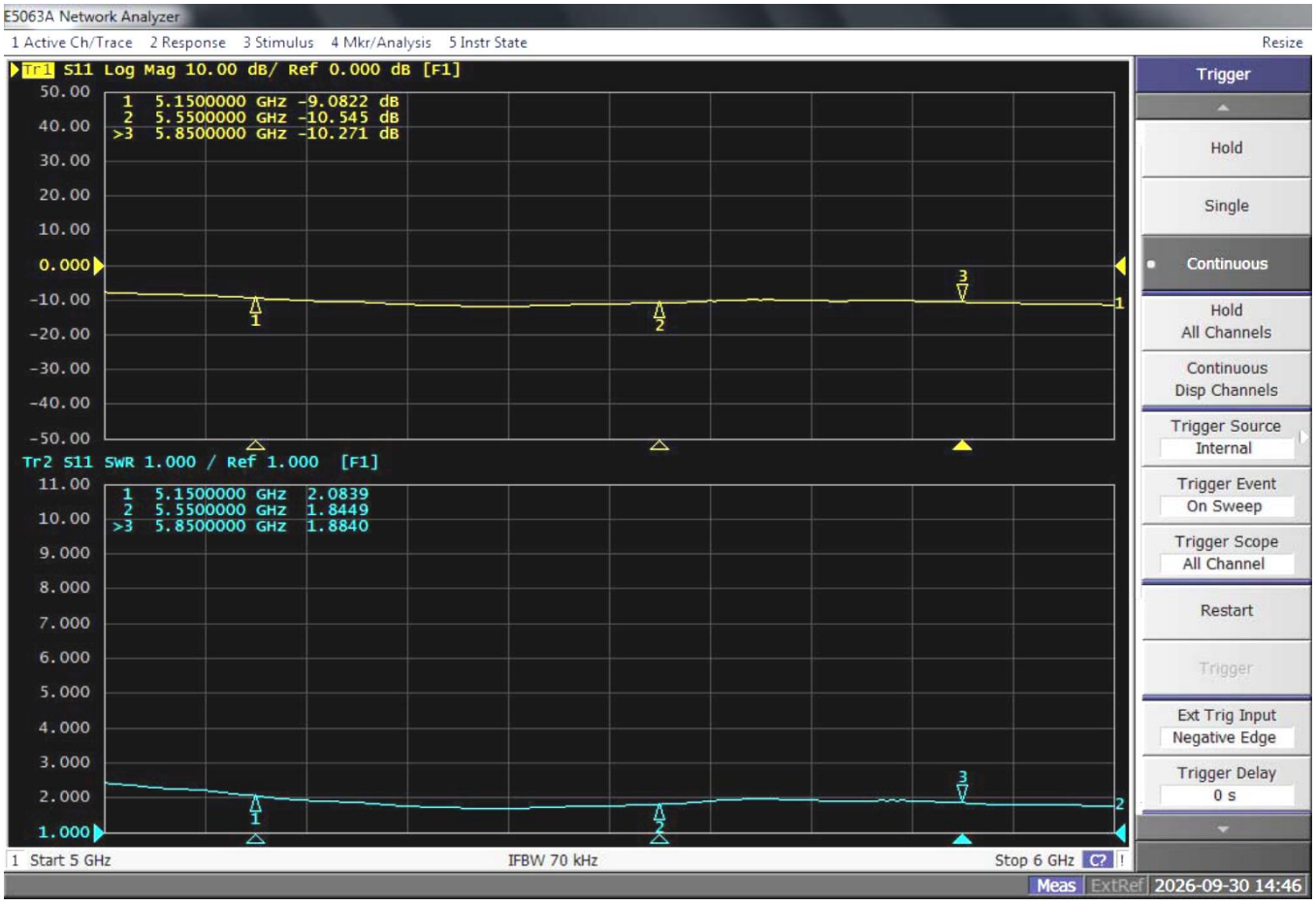
NO	PART NAME	DESCRIPTION	Q. TY
3	SMA接頭	CU	1
2	线材	RG402黑色线	1
1	天线外壳	ABS	1

SIGN	DATE	DESCRIPTION	APPROVER
1			
2			
3			

TITLE: PART NO.: Antenna

PART NO.: VM5800-3417-SMAM-120 | DWG NAME:

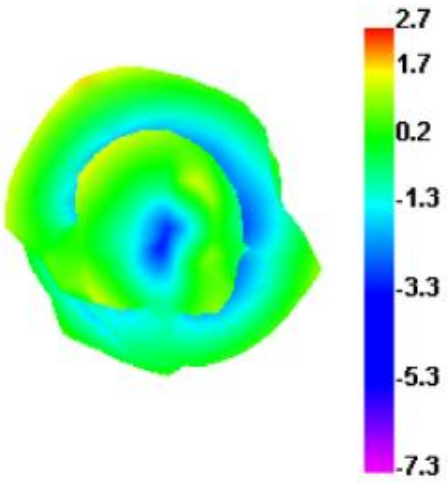
APPROVED BY	CHECKED BY	DESIDNED BY	UNITS: mm	Tolerance
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			REVISION: A	X.XX ±0.1
				X° ±1°



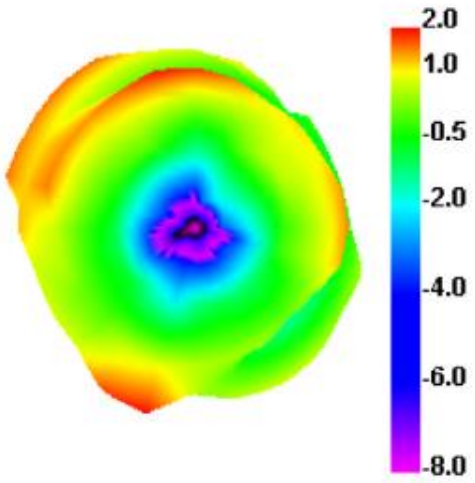
Antenna Gain Test

Antenna Radiation Pattern

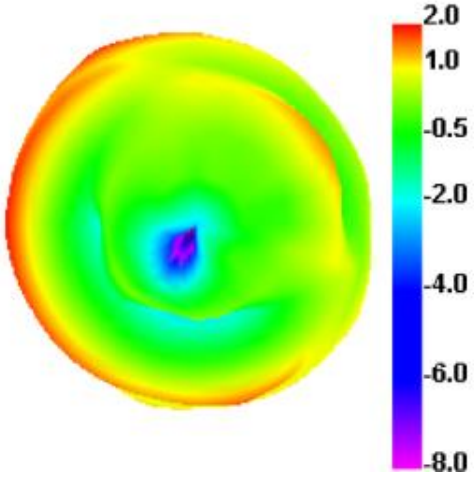
5150.000MHz



5500.000MHz



5850.000MHz



Gain and Efficiency Test Data

Freq	(MHz)	5150	5250	5350	5450	5550	5650	5740	5750	5850
Effi	(%)	69.14	69.37	65.31	67.72	79.44	87	82.55	80.08	69.14
Effi	(dB)	-1.6	-1.59	-1.85	-1.69	-1	-0.6	-0.83	-0.96	-1.6
Gain	(dBi)	2.74	1.87	1.43	1.77	3.28	4.26	3.55	3.39	2.03



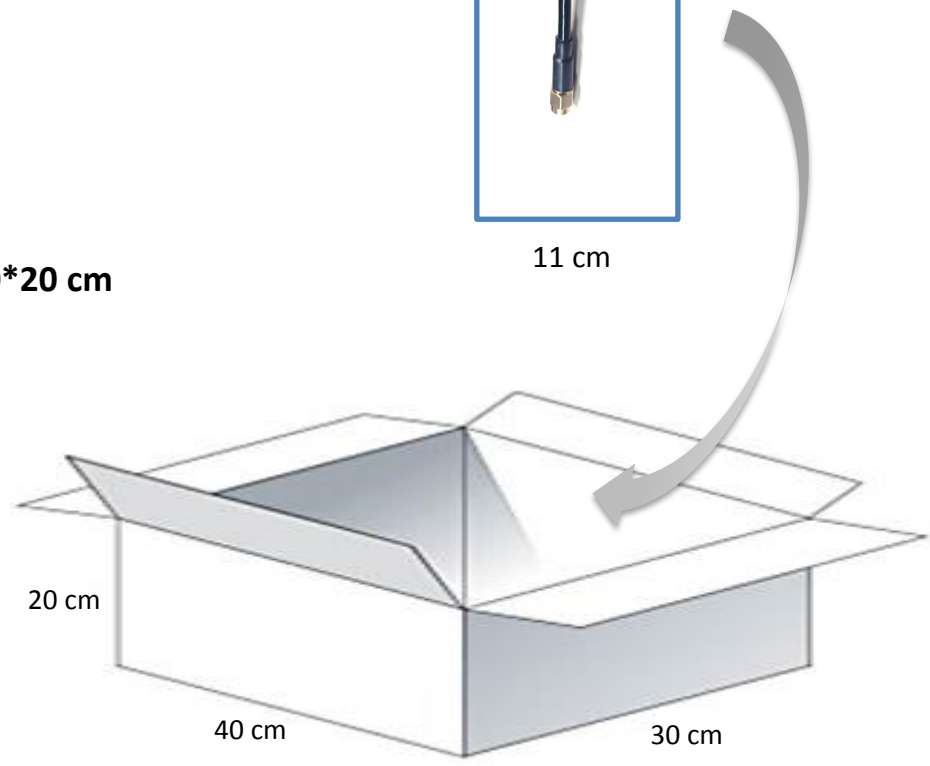
Packaging

Sealing



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

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



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