

Antenna

UAV00008 Datasheet

Antenna Services

Version:1.0

Date: 2026-4-20

Status: Released



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Overall Performance

1) Test Environment

The Gain, Efficiency, Directivity and 2/3D Pattern

3D Anechoic Chamber

Testing range from 300MHz to 8.5GHz

Chamber Room Size: L*W*H=9*4.7*4.7 M

VSWR

Testing range from 300KHz~8.5GHz

Network Analyzer(Agilent-E5071C or R&S ZVL)



2) Product Specifications

Electrical Specifications

Model	UAV00008
Frequency band	4.9~7.125GHz
Gain	3.4dBi
Horizontal Beamwidth	360°
VSWR	≤1.4
Ovality	≤2dB
Impedance	50Ω
Polarization	RHCP
Max. Power	50W
Lightning Protection	Dc ground
Connector	SMA-male

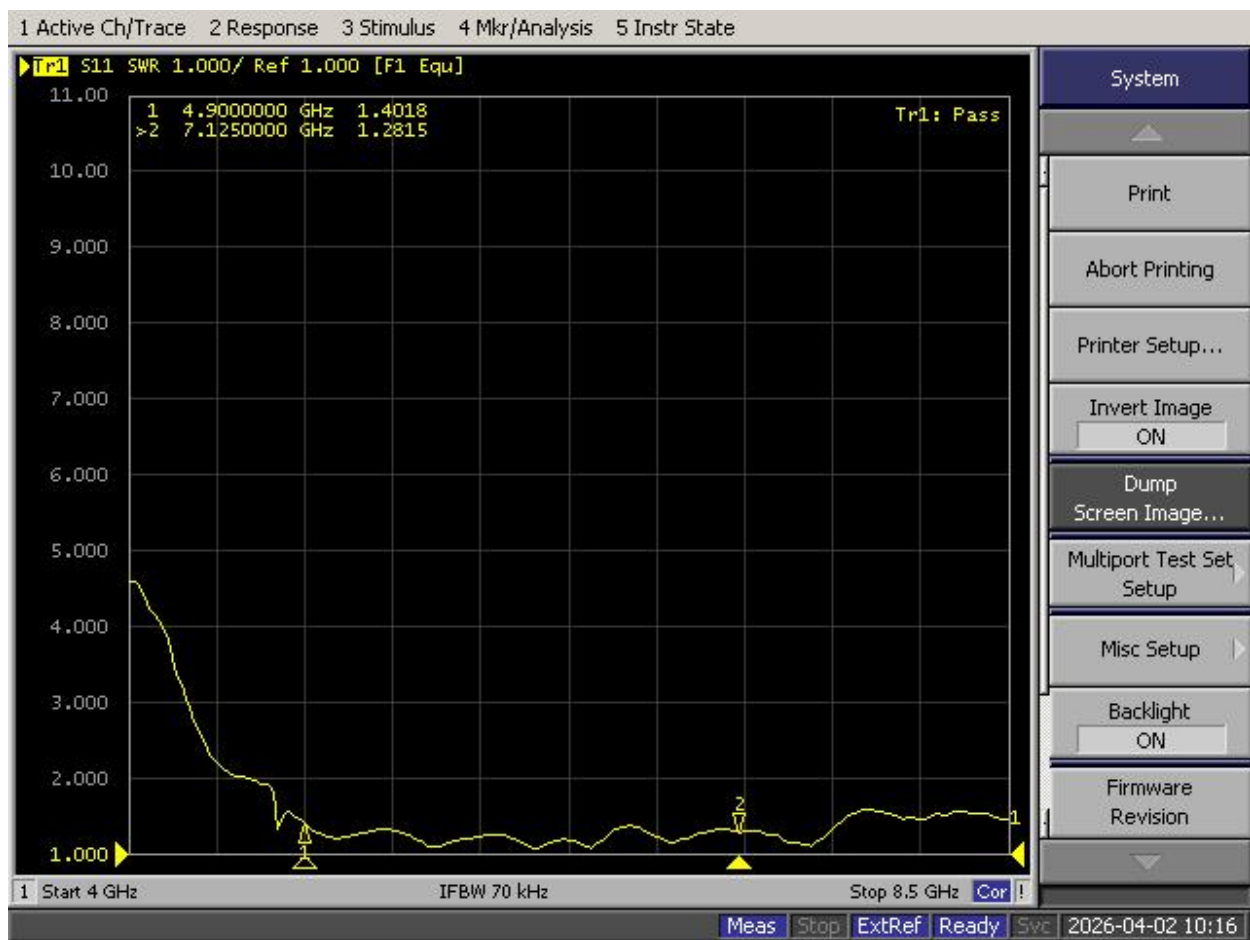
Mechanical Specifications

Dimension(mm)	150mm
Weight(kg)	0.12Kg
Internal material	Copper
Radome Color	Black
Radome material	ABS
Operating temperature	-40~85℃

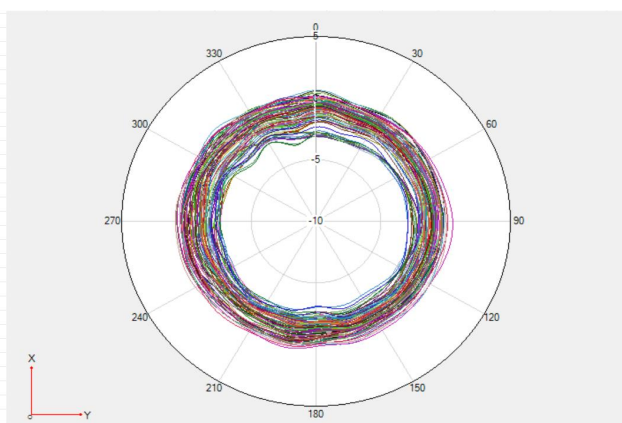
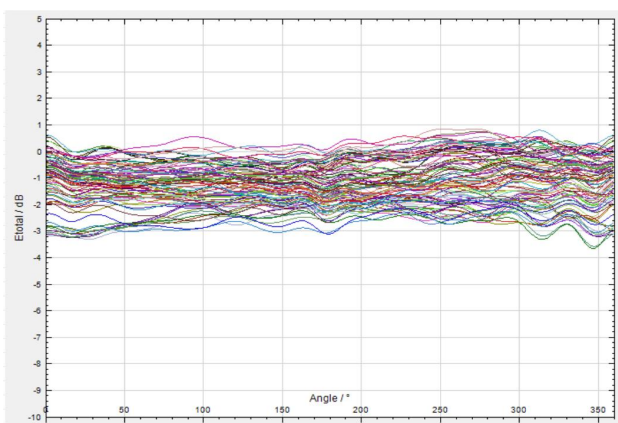
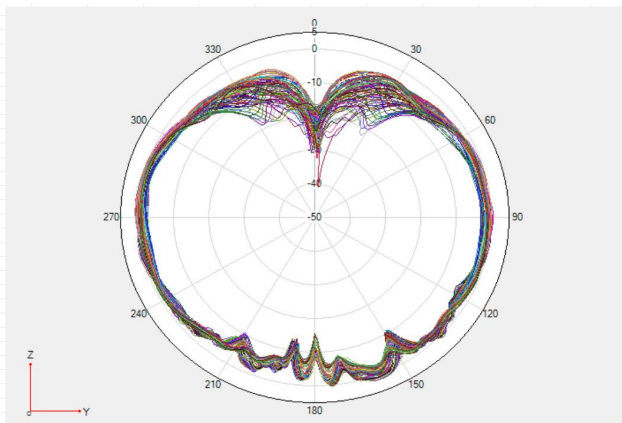
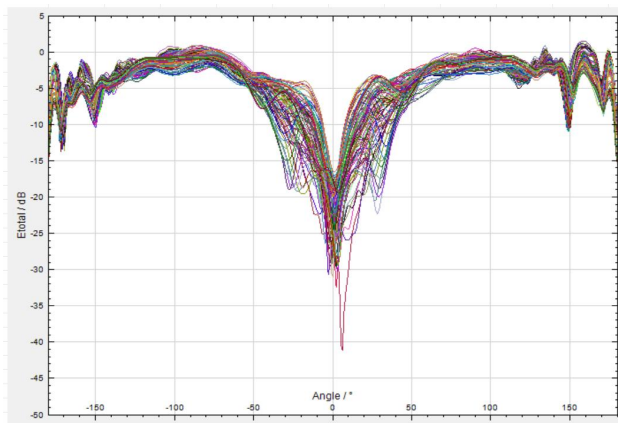
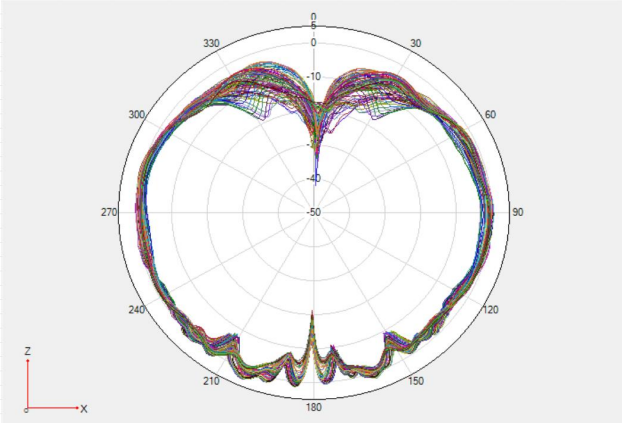
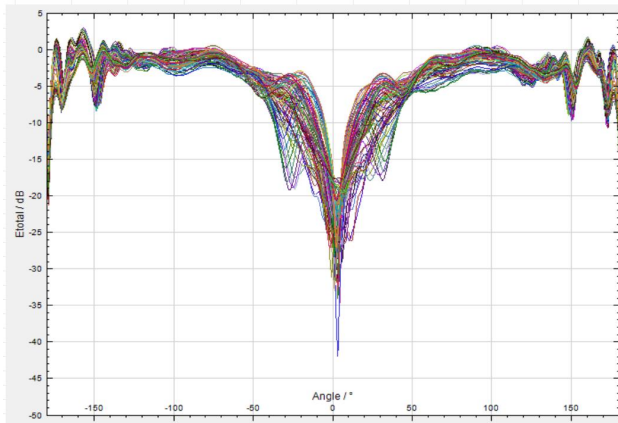


3) VSWR

Frequency (GHz)	4.9G	7.125G
VSWR	1.4018	1.2815

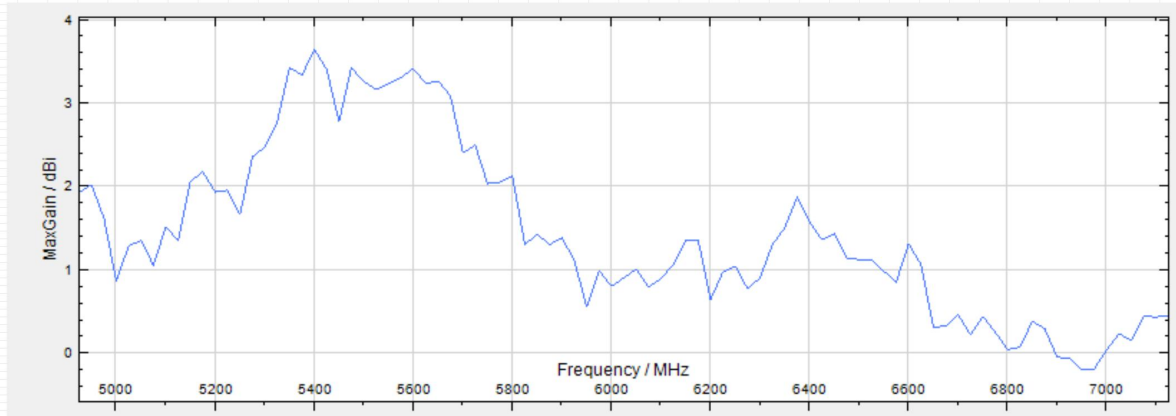


4) Report 2D Report

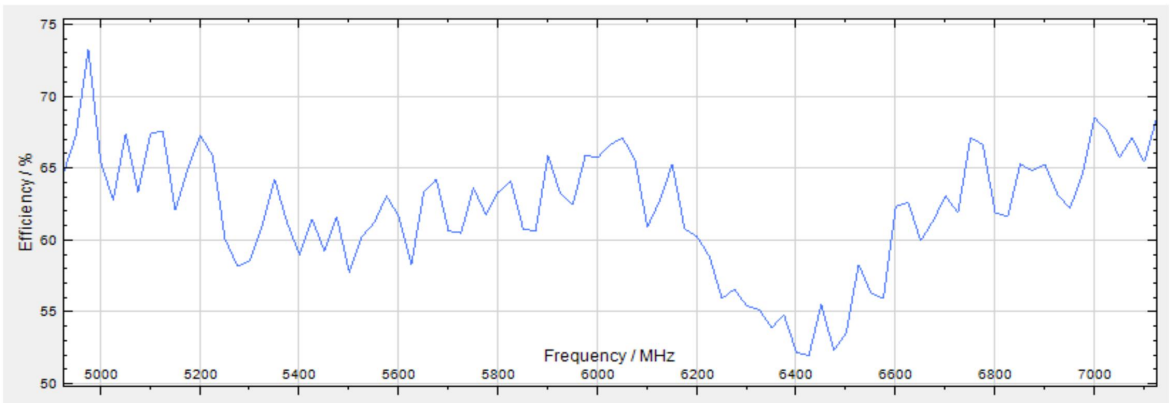


5) Total Efficiency & Gain:

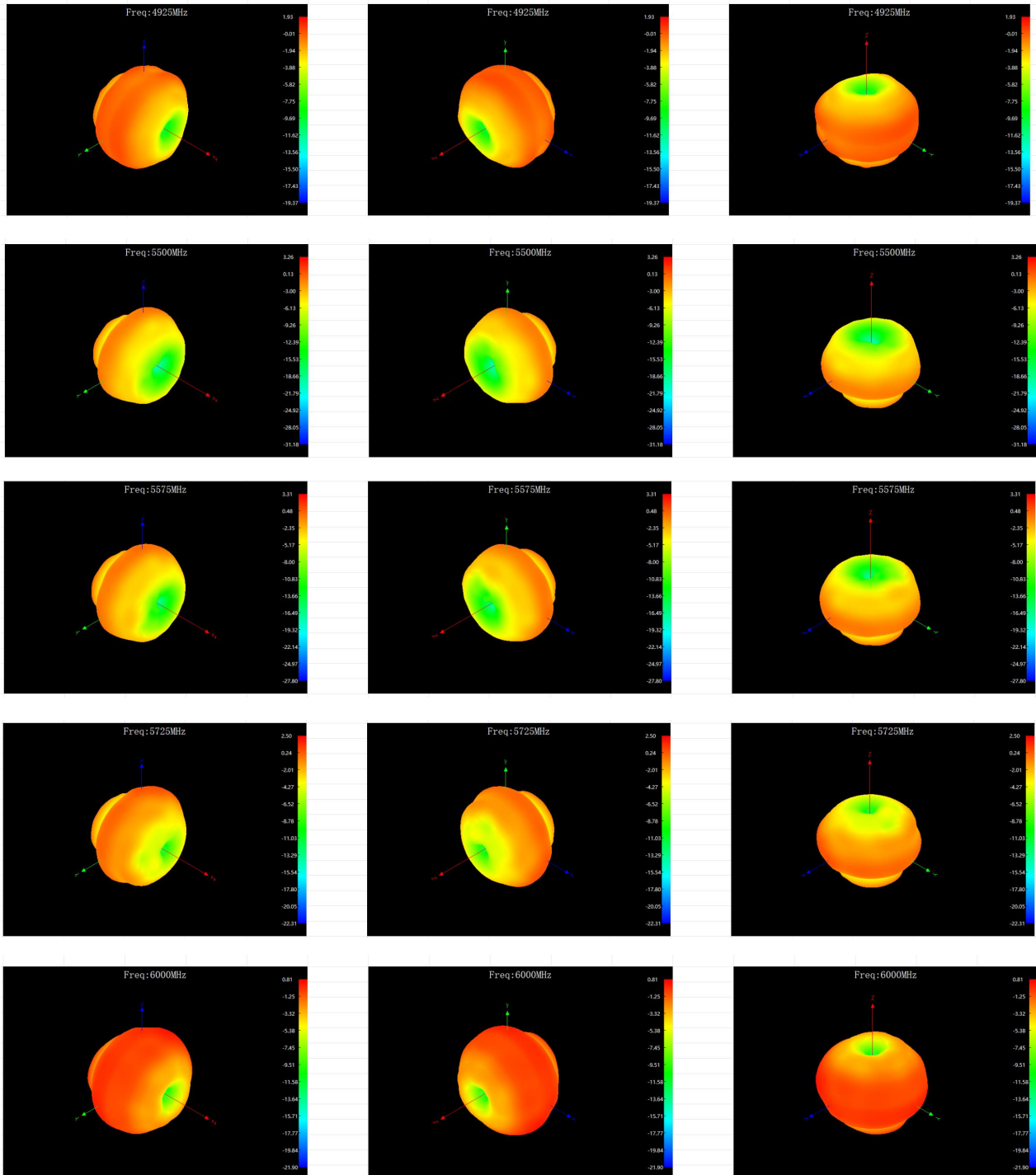
5100	1.52
5125	1.36
5150	2.07
5175	2.18
5200	1.94
5225	1.98
5250	1.67
5275	2.36
5300	2.45
5325	2.75
5350	3.43
5375	3.34
5400	3.86
5425	3.41
5450	2.75
5475	3.43
5500	2.29
5525	3.17
5550	2.24
5575	3.31
5600	3.40
5625	3.24
5650	3.27
5675	3.09
5700	2.41
5725	2.5
5750	2.04
5775	2.06
5800	2.13
5825	1.31
5850	1.43
5875	1.31
5900	1.58
5925	1.12
5950	0.96
5975	0.81
6000	0.91
6025	1.02
6050	0.8
6075	0.9
6100	1.07
6125	1.36
6150	1.36
6175	0.95
6200	0.95
6225	0.95
6250	1.05
6275	0.75
6300	1.01
6325	1.21
6350	1.81
6375	1.81
6400	1.59
6425	1.37
6450	1.44
6475	1.16
6500	1.13
6525	1.12
6550	0.99
6575	0.96
6600	1.32
6625	1.07
6650	0.32
6675	0.32
6700	0.47
6725	0.23
6750	0.48
6775	0.26
6800	0.06
6825	0.08
6850	0.39
6875	0.3
6900	-0.04
6925	-0.06
6950	-0.19
6975	-0.18
7000	0.05
7025	0.24
7050	0.16
7075	0.46
7100	0.46



5100	64.13
5125	67.13
5150	62.28
5175	62.46
5200	62.81
5225	65.28
5250	65.28
5275	67.46
5300	67.46
5325	67.13
5350	67.13
5375	67.13
5400	67.13
5425	67.13
5450	67.13
5475	67.13
5500	67.13
5525	67.13
5550	67.13
5575	67.13
5600	67.13
5625	67.13
5650	67.13
5675	67.13
5700	67.13
5725	67.13
5750	67.13
5775	67.13
5800	67.13
5825	67.13
5850	67.13
5875	67.13
5900	67.13
5925	67.13
5950	67.13
5975	67.13
6000	67.13
6025	67.13
6050	67.13
6075	67.13
6100	67.13
6125	67.13
6150	67.13
6175	67.13
6200	67.13
6225	67.13
6250	67.13
6275	67.13
6300	67.13
6325	67.13
6350	67.13
6375	67.13
6400	67.13
6425	67.13
6450	67.13
6475	67.13
6500	67.13
6525	67.13
6550	67.13
6575	67.13
6600	67.13
6625	67.13
6650	67.13
6675	67.13
6700	67.13
6725	67.13
6750	67.13
6775	67.13
6800	67.13
6825	67.13
6850	67.13
6875	67.13
6900	67.13
6925	67.13
6950	67.13
6975	67.13
7000	67.13
7025	67.13
7050	67.13
7075	67.13
7100	67.13



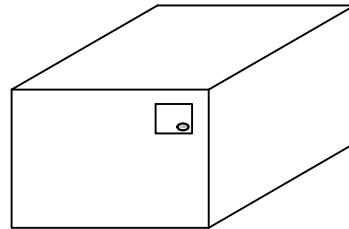
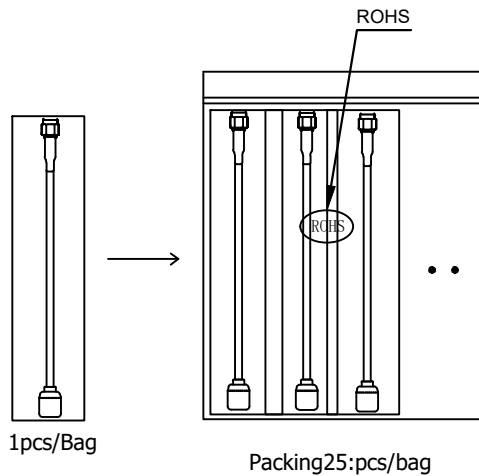
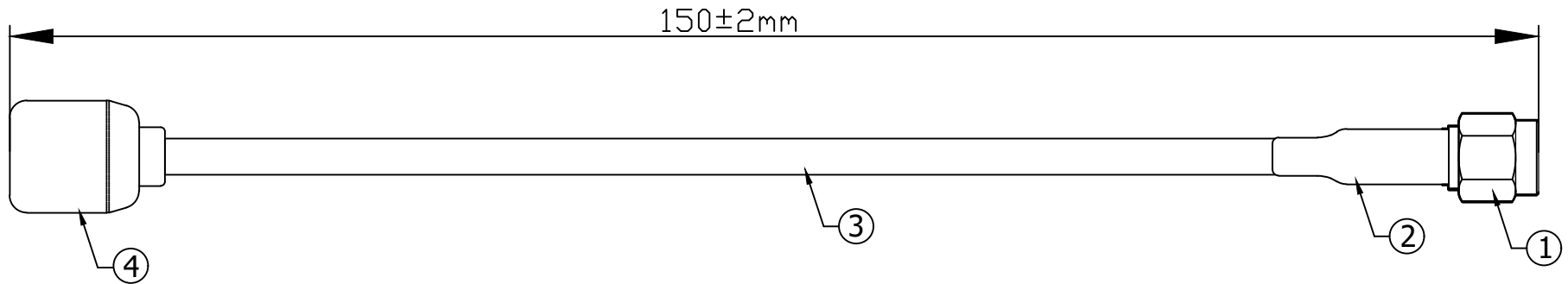
6) Antenna 3D Report



Drawing

ROHS

REV.	Trim contents	TIME
A	New	2026.04.20



- 1.The outer box requires 1PCS/RoHS label on the outer box label
- 2.The outer box requires 1PCS/outer box label
- 3.On the upper right corner of the outer box side wheat

Specification:
Frequency Rang:4.9~7.125GHz
Impedance:50Ω
VSWR:1.92or Less
Gian:3.4dBi

4	Rubber shell	ABS material ,black	1	
3	Cable	RG141 Cable,Black,50 Ω	1	
2	H.S Tube	Heat Shrink Tube,	1	
1	Connector	SMA Straight Plug/Standard,Gold-Plated	1	With PIN
NO	DESCRIPTION		Q'TY	REMARK

TITLE:		long range FPV Antenna		 KEESUN Shenzhen Keesun Technology Co., Ltd.				
P/N:		DR00007						
CUSTOMER:								
DRAW NO.:								
DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED							APPROVED	
一般公差 TOLERANCE		.XXX	±0.05	XX	±1.0		CHECKED	
		.XX	±0.1					
		.X	±0.2					
		X	±0.5					
				SHEET: 1/1	SCALE: 1:1			
				UNIT: mm	REV.A	DRAWED	Julia	