

Wi-Fi 7 Tri-Band Drone Antenna



EHT-WD-17SRM

Electrical Characteristics

Parameter	Specification
Frequency	2400 ~2500 / 5150~5850 / 5925~7125 MHz
V.S.W.R.	<= 2.5
Gain Range	3dBi ~ 8.56dBi
Radiation Pattern	Omni-Directional
Polarization	Linear
Impedance	50 Ohm

Material & Mechanical Characteristics

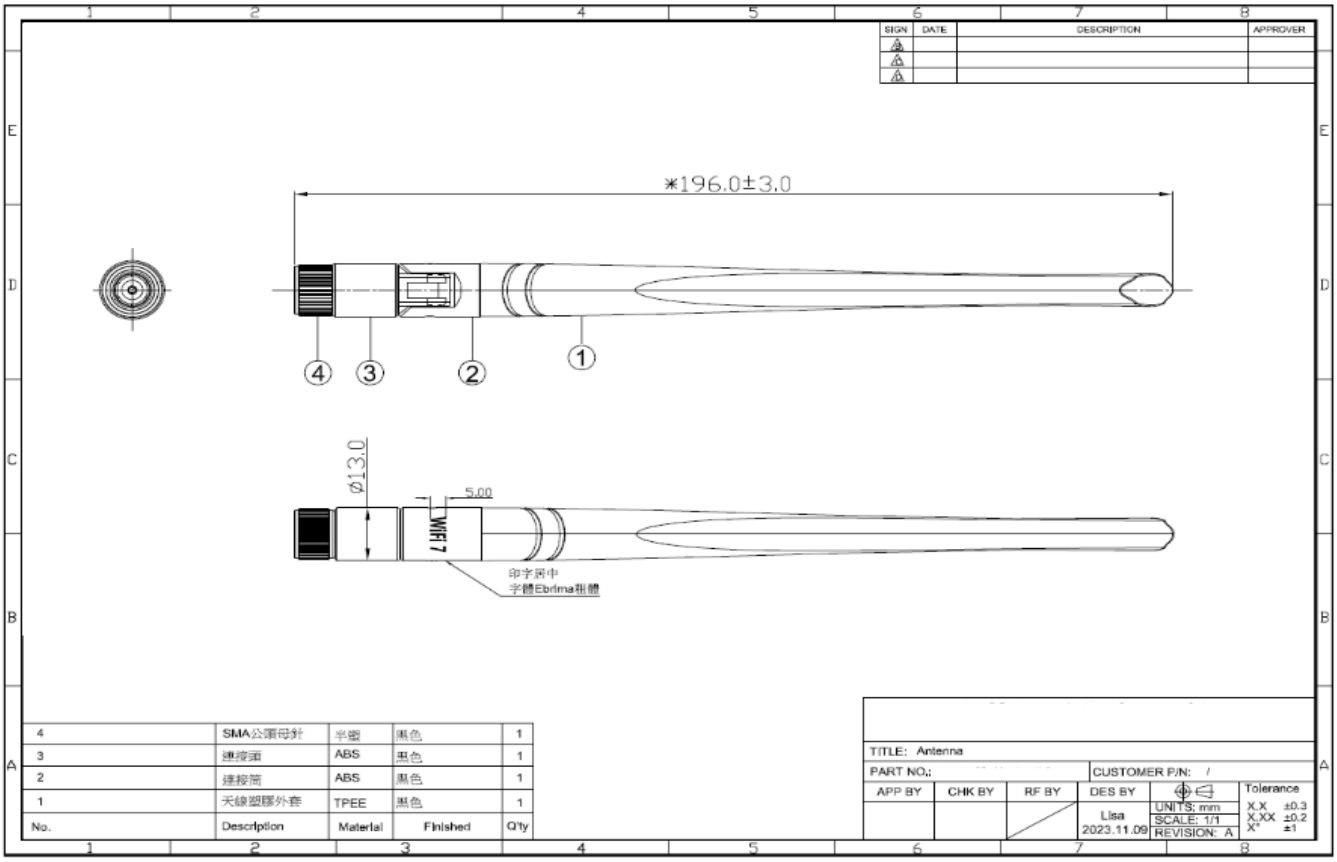
Parameter	Specification
Material Radiator	Copper /TPEE / ABS
Connector Type	SMA /M Reverse (Optional)
Dimensions	196* φ 13 mm
Weight	20g

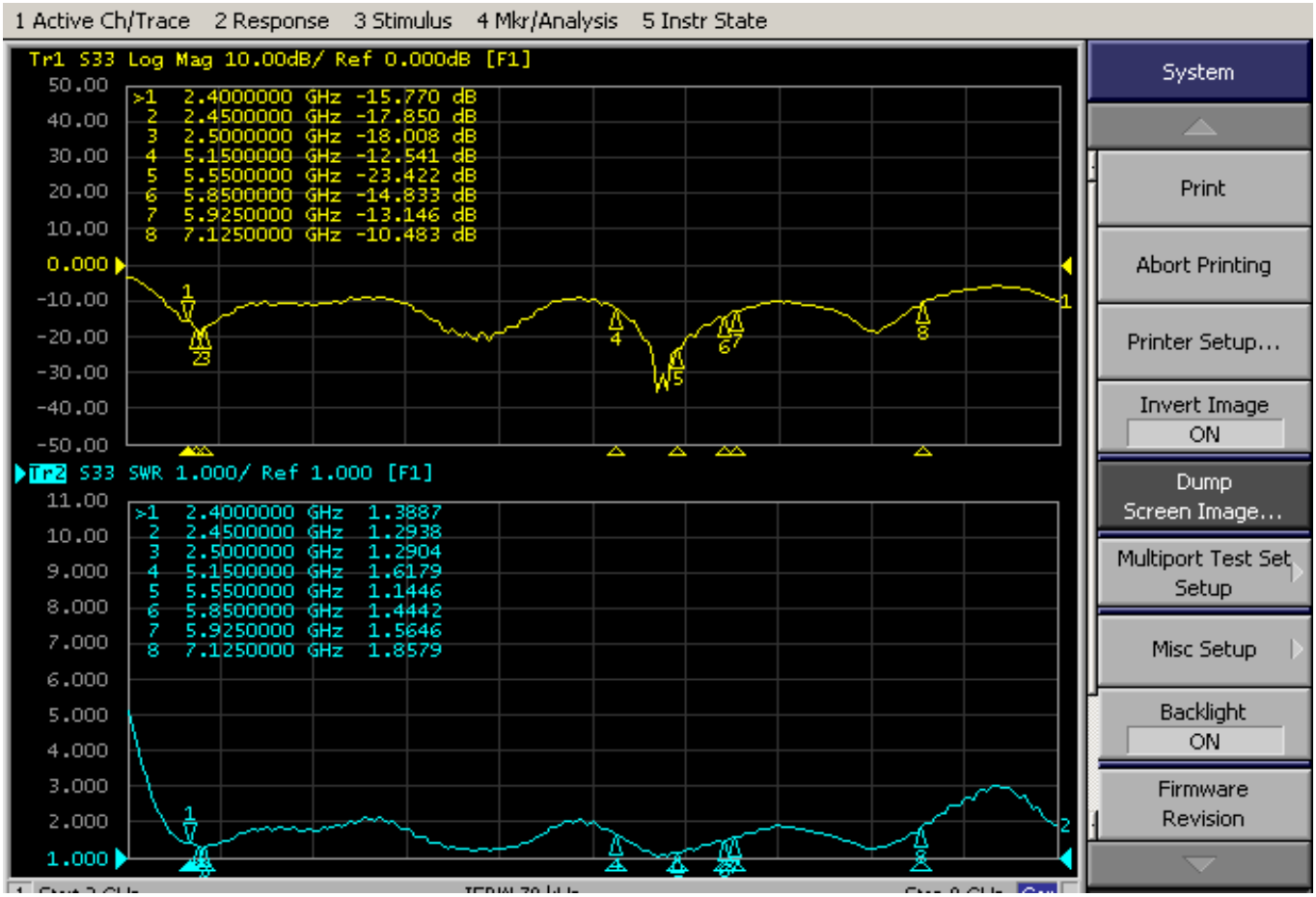
Environmental

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

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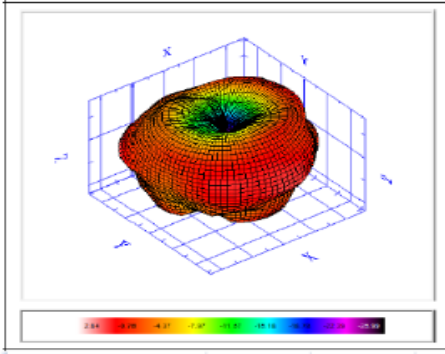
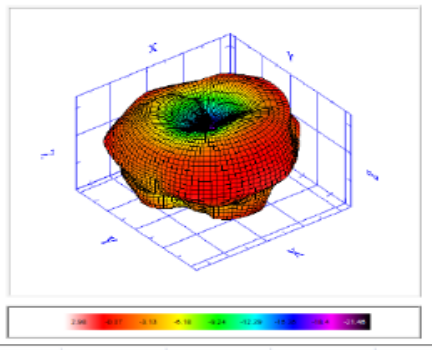
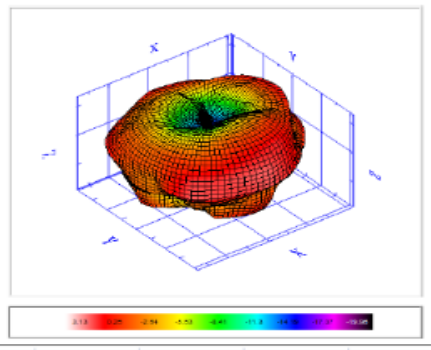
CE FC RoHS COMPLIANT DNV ISO 9001


SIGN
DATE
DESCRIPTION
APPROVER
*196.0±3.0
④
③
②
①
ø13.0
5.00
WIFI 7
印字居中
字體Ebrima粗體
4 SMA公頭母針 半鍍 黑色 1
3 連接頭 ABS 黑色 1
2 連接筒 ABS 黑色 1
1 天線塑膠外套 TPEE 黑色 1
No. Description Material Finished Q'ty
TITLE: Antenna
PART NO.:
CUSTOMER P/N: /
APP BY
CHK BY
RF BY
DES BY
Lisa
2023.11.09
UNITS: mm
SCALE: 1/1
REVISION: A
Tolerance
X.X ±0.3
X.XX ±0.2
X° ±1

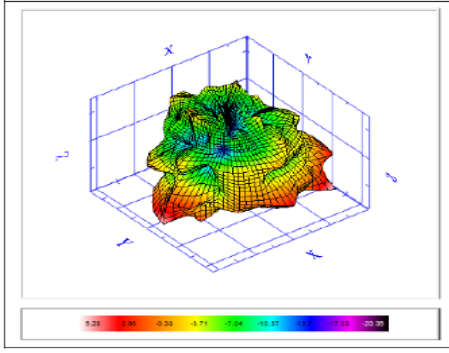
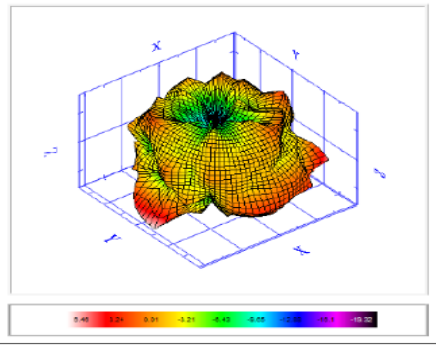
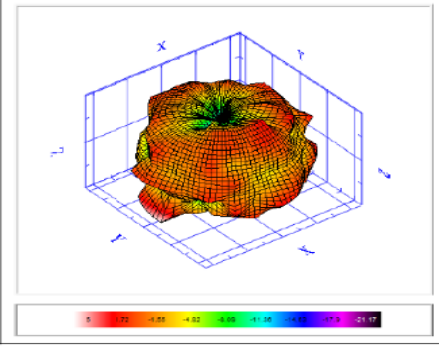

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Tr1 S33 Log Mag 10.00dB/ Ref 0.000dB [F1]
>1 2.4000000 GHz -15.770 dB
2 2.4500000 GHz -17.850 dB
3 2.5000000 GHz -18.008 dB
4 5.1500000 GHz -12.541 dB
5 5.5500000 GHz -23.422 dB
6 5.8500000 GHz -14.833 dB
7 5.9250000 GHz -13.146 dB
8 7.1250000 GHz -10.483 dB
Tr2 S33 SWR 1.000/ Ref 1.000 [F1]
>1 2.4000000 GHz 1.3887
2 2.4500000 GHz 1.2938
3 2.5000000 GHz 1.2904
4 5.1500000 GHz 1.6179
5 5.5500000 GHz 1.1446
6 5.8500000 GHz 1.4442
7 5.9250000 GHz 1.5646
8 7.1250000 GHz 1.8579
System
Print
Abort Printing
Printer Setup...
Invert Image
ON
Dump Screen Image...
Multiport Test Set Setup
Misc Setup
Backlight
ON
Firmware Revision

Antenna Gain Test

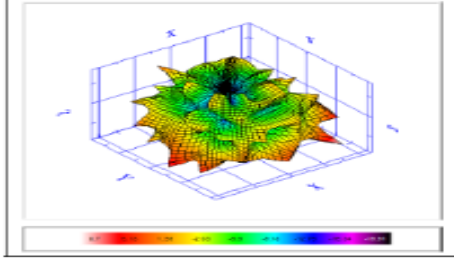
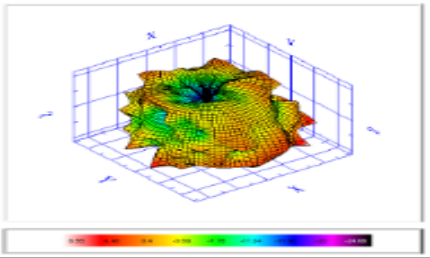
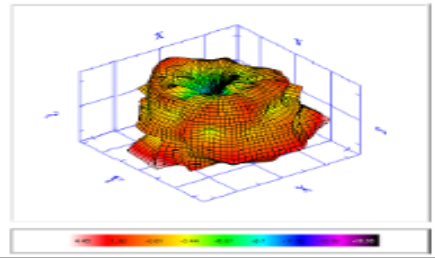
Antenna Radiation Pattern

2400 MHz	2450 MHz	2500 MHz
		

Frequency	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Peak Gain (dBi)	2.84	2.74	2.83	2.82	2.6	2.98	2.56	2.67	2.46	2.53	3.13
Efficiency (%)	59.7	61.57	60.69	61.07	55.19	62.17	58.49	61.98	65.22	61.76	68.08
Average Gain (dB)	-2.24	-2.11	-2.17	-2.14	-2.58	-2.06	-2.33	-2.08	-1.86	-2.09	-1.67

5150 MHz	5600 MHz	5850 MHz
		

Frequency	5150	5180	5250	5350	5470	5580	5600	5700	5725	5745	5785	5800	5850
Peak Gain (dBi)	6.28	4.15	5.48	5.22	5.31	5.37	6.46	5.46	5.06	5.76	4.51	3.82	5
Efficiency (%)	44.21	35.45	45.1	54.36	64.25	72.83	69.47	75.27	66.81	78.64	77.74	70.33	77.78
Average Gain (dB)	-3.54	-4.5	-3.46	-2.65	-1.92	-1.38	-1.58	-1.23	-1.75	-1.04	-1.09	-1.53	-1.09

5925 MHz	6525 MHz	7125 MHz
		

Frequency	5925	6125	6325	6525	6825	7125
Peak Gain (dBi)	8.7	8.04	7.38	8.56	4.88	4.45
Efficiency (%)	65.1	77.08	76.7	89.36	55.67	73.07
Average Gain (dB)	-1.86	-1.13	-1.15	-0.49	-2.54	-1.36



Key Highlights & Specifications:

- **Tri-Band Wi-Fi 7 Support (2.4 / 5 / 6 GHz):** Covers 2400–2500 MHz, 5150–5850 MHz, and 5925–7125 MHz for ultra-wide bandwidth, low latency, and seamless Wi-Fi 7 (IEEE 802.11be) drone telemetry and HD video streaming.
- **~75% Radiation Efficiency:** Delivers steady 360° omnidirectional coverage and dependable impedance matching throughout agile flight maneuvers.
- **Durable & Lightweight (20 g):** Combines a rugged TPEE/ABS enclosure and precision copper radiator with a hinged SMA connector for versatile angle adjustment.
- Tailored for mission-critical UAV and wireless systems, the **EHT-WD-17SRM** pairs tri-band Wi-Fi 7 capability with a compact, lightweight build. With high radiation efficiency and broad temperature tolerance, it is an ideal fit for drones, ground control stations (GCS), controllers, and low-latency HD video links.

Applications:

- UAVs / Commercial & Industrial Drones
- Ground Control Stations (GCS) & Remote Controllers
- High-Throughput HD Video & Telemetry Transmission Systems
- Handheld & Portable Wireless Communication Devices
- Automotive, Robotics & Autonomous Vehicles



Packaging

Sealing

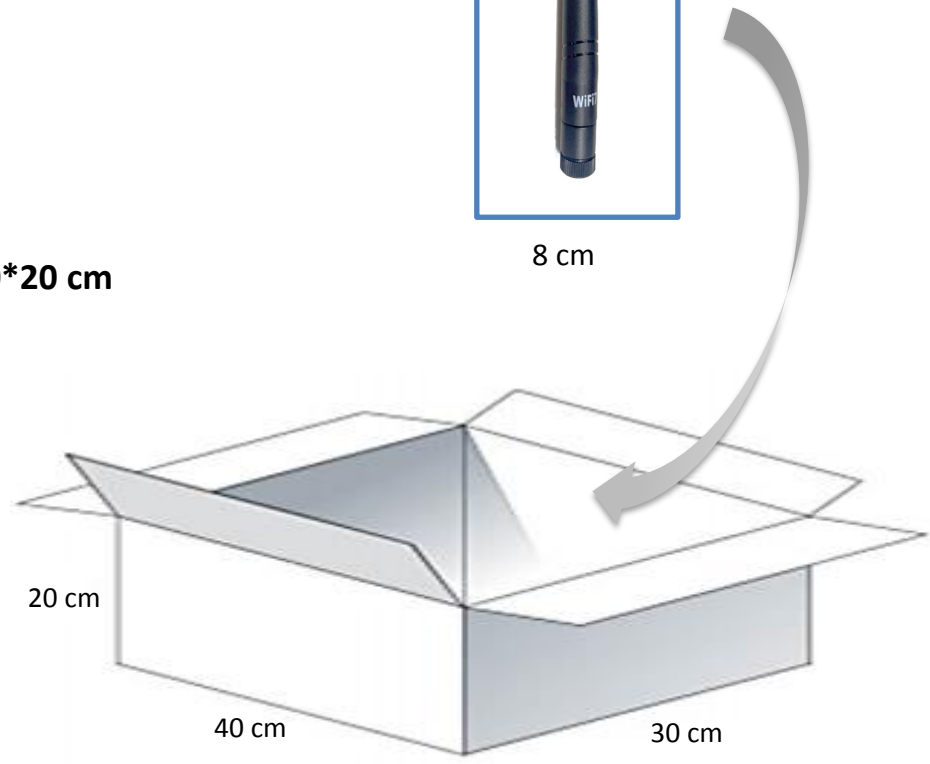


25 cm

8 cm

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

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



CE FC RoHS COMPLIANT DNV **ISO 9001**