

**ANTENNA SPECIFICATION FOR APPROVAL****CUSTOMER : Caddx Technology (Shenzhen) Co., Ltd.****CUSTOMER NO : M.TX001****PART NAME : 5.8G LHCP Omnidirectional Antenna****SUPPLIER : S-CD-A11****DATE: 2023-11-16 QTY : 3Pcs**

Address: 13/F, Minrray Building, No. 5 Ganli Sixth Road, Jihua Street, Longgang District, Shenzhen City, Guangdong Province, China.

<b>Project</b>			
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**CUSTOMER APPROVED BY**

<b>APPROVAL</b>	<b>CHIEF</b>	<b>SUPERVISOR</b>

**SUPPLIER SIGNATURE BY**

<b>APPROVAL</b>	<b>CHECK</b>	<b>DESIGN</b>

## Specification

Electrical Properties	
Frequency	5600MHz–6000MHz
Impedance	50 Ω
S. W. R	≤1.5
Return Loss	See S Parameter
Radiation	Omnidirectional
Gain	2.36dBi (AVG)
Polarization	LHCP

Physical Properties	
Antenna material	PA/Cu/Ag
Cover material	PC/ABS
Cable	N/A
Connector	RP-SMA
Size	See Drawing for details
Weight	3.5g
Packing	Bag packaging (engineering packaging)

## Drawing

CUSTOMER	CADDXFPV		REV.	DESCRIPTION	DATE																																								
PART NO	M.TX001		▲	首次发行	2023-09-01																																								
<table border="1"> <tr> <td>3</td> <td>Upper Base</td> <td>PC+ABS, black</td> <td>1</td> </tr> <tr> <td>2</td> <td>Bottom Base</td> <td>PC+ABS, black</td> <td>1</td> </tr> <tr> <td>1</td> <td>SMA Male Reverse</td> <td>CU, Integrated</td> <td>1</td> </tr> <tr> <td>NO</td> <td>PART NAME</td> <td>DESCRIPTION</td> <td>Q.TY</td> </tr> </table>			3	Upper Base	PC+ABS, black	1	2	Bottom Base	PC+ABS, black	1	1	SMA Male Reverse	CU, Integrated	1	NO	PART NAME	DESCRIPTION	Q.TY	<table border="1"> <tr> <td colspan="2">RUSHFPV</td> <td colspan="2">深圳亦是科技有限公司</td> </tr> <tr> <td colspan="2"></td> <td colspan="2">Shenzhen Yishi technology Co., Ltd</td> </tr> <tr> <td colspan="2">PART NAME: 5.8GHz SHORT OMNI Antenna (For V2 Glasses)</td> <td colspan="2"></td> </tr> <tr> <td colspan="2">PART NO.: S-CCD-A11</td> <td colspan="2"></td> </tr> <tr> <td>CHECKED BY</td> <td>APPROVED BY</td> <td>DESIGNED BY</td> <td>DATE: 2023-09-01</td> </tr> <tr> <td>ZhangBiao</td> <td>Dongsheng</td> <td>Ziyuan</td> <td>             Tolerance: XX ±0.50            UNITS: mm            SCALE: 2:1            REVISION: A            X.XX±0.15            X° ±3°         </td> </tr> </table>			RUSHFPV		深圳亦是科技有限公司				Shenzhen Yishi technology Co., Ltd		PART NAME: 5.8GHz SHORT OMNI Antenna (For V2 Glasses)				PART NO.: S-CCD-A11				CHECKED BY	APPROVED BY	DESIGNED BY	DATE: 2023-09-01	ZhangBiao	Dongsheng	Ziyuan	 Tolerance: XX ±0.50 UNITS: mm SCALE: 2:1 REVISION: A X.XX±0.15 X° ±3°
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## Mechanical property testing

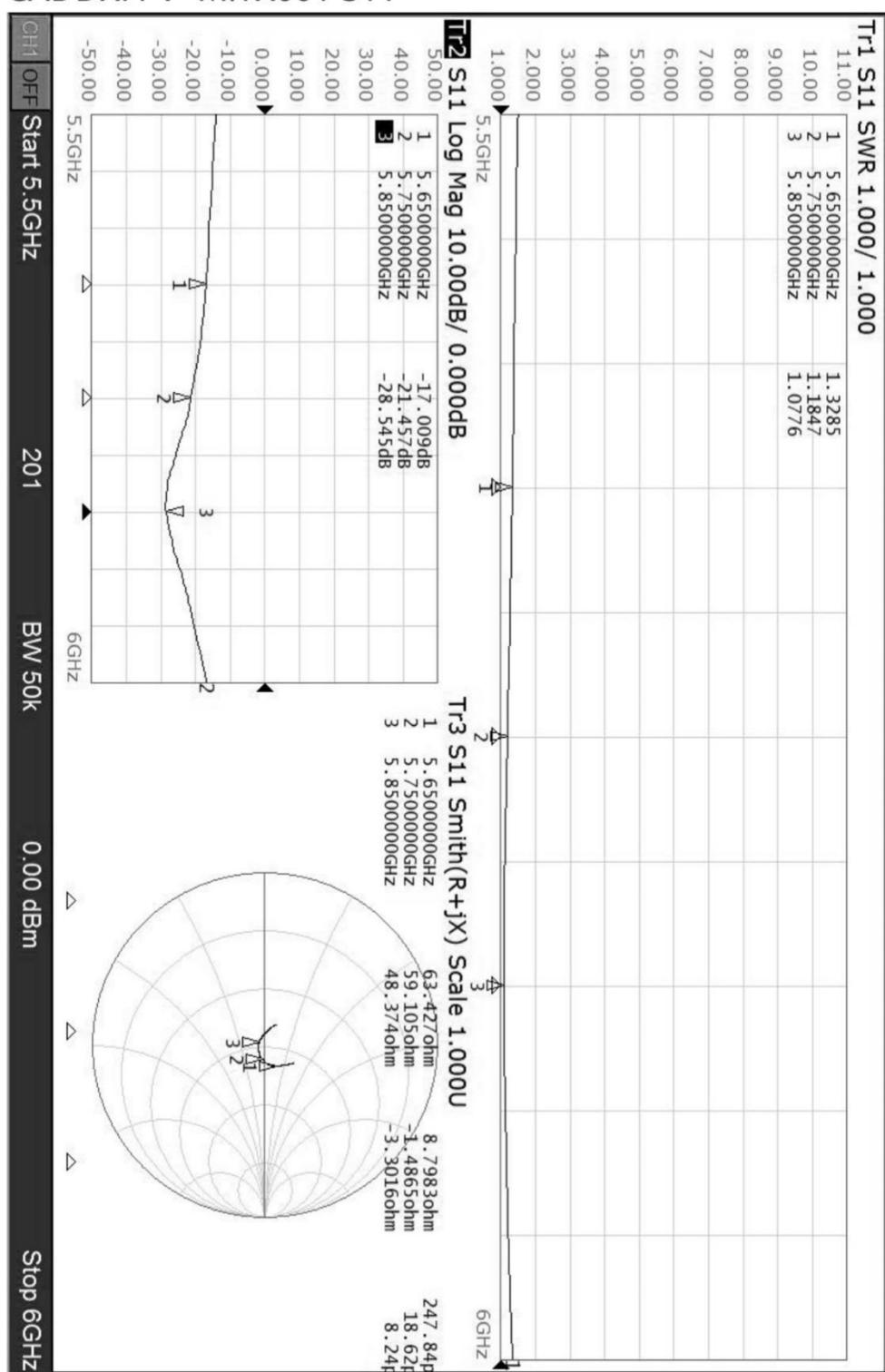
1	Swing test	After fixing the joint, conduct a swing test, with the swing angle of 60 degrees to the left and right, and test the characteristics after swinging 1000 times.	The product has no cable, no such test
2	Strength test	A static load of 15 pounds is applied to the bottom of the enclosure for one minute.	There is no sign of mechanical or electrical damage.
3	Tensile test	Use a tensile tester to test the tension between the connector and the wire.	This product has no cable and no such test
4	Vibration Testing	Vibrate in the X-axis direction for 120 minutes, in the Y-axis direction for 120 minutes, and in the Z-axis direction for 240 minutes at an amplitude of 1.10 mm and a vibration frequency of 33.30 Hz/sec.	There is no phenomenon showing any damage to the electrical performance.

## Durability testing

1	Salt spray test	<p>Salt spray test: According to GB1266-86 standard</p> <p>Distilled water: single distillation PH6.5~7</p> <p>Spray volume: 1.4me80cm<sup>2</sup>/h</p> <p>Compressed air pressure: 1Kgf/cm<sup>2</sup></p> <p>Test relative humidity: 98°</p> <p>Temperature: 45°~47°</p> <p>Pressure temperature: 35°</p> <p>Test time: 48hr</p>	There is no sign of mechanical or electrical damage.
2	High temperature testing	Place in 85+2C° environment for 96 hours, then place in normal environment for 30 minutes before testing	
3	Low temperature test	Place in -40+2C° environment for 96 hours, then place in normal environment for 30 minutes before testing	

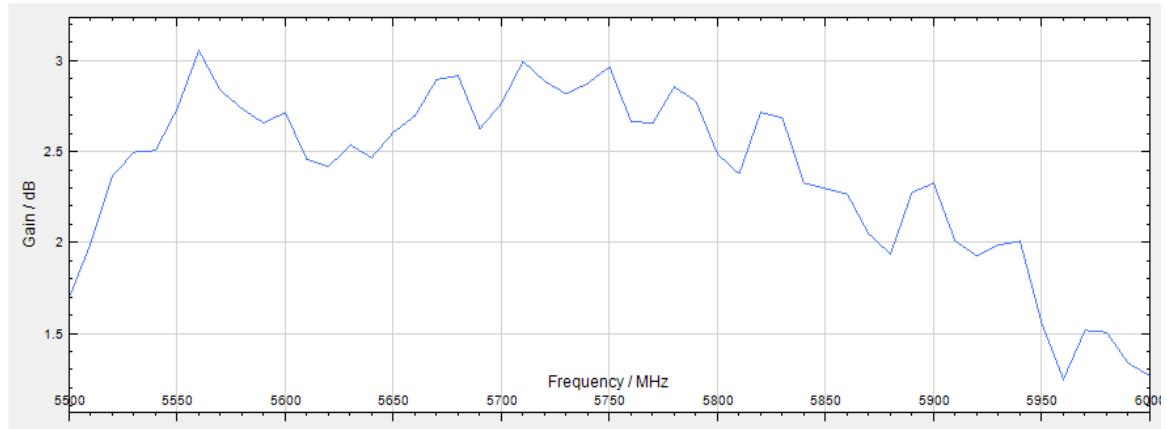
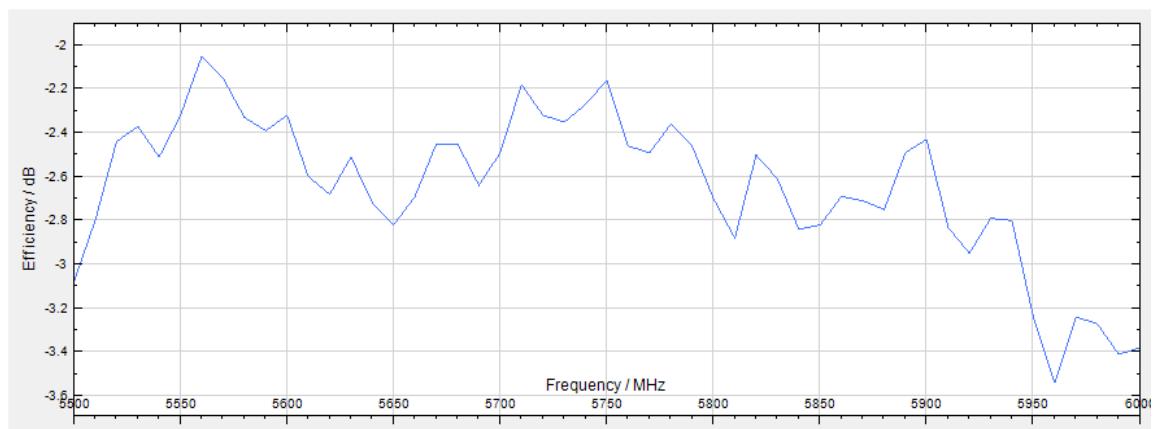
## S Parameter

CADDXFPV M.TX001 S11



### Antenna Passive Test

Efficiency			Gain	
Frequency / MHz	Efficiency / dB	Efficiency / %	Frequency / MHz	Gain/ dB
5600	-2.32	58.61	5600	2.72
5650	-2.82	52.24	5650	2.61
5700	-2.49	56.36	5700	2.77
5750	-2.16	60.81	5750	2.97
5800	-2.7	53.7	5800	2.49
5850	-2.82	52.24	5850	2.3
5900	-2.43	57.15	5900	2.33
5950	-3.24	47.42	5950	1.56
6000	-3.38	45.92	6000	1.27



### 3D radiation pattern

