



Shanghai Chuangmi Technology Co., Ltd.

Integral Antenna

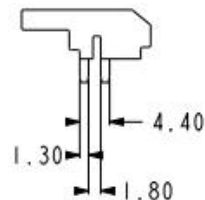
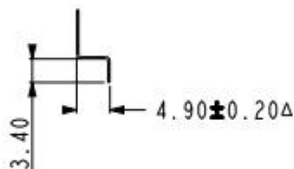
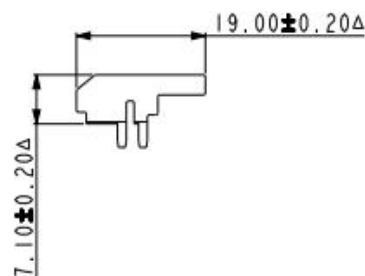
Part Description	Manufacturer	Kunshan Yunzhong Electronic Technology Co. LTD.	Description:	CM0330-W01-10		
	Manufacturer Address: No.399, Jujin Road, Zhangpu Town, Kunshan City, Jiangsu Province					
Attachments:	Product Name:	IPCO72_ACC1,Wifi Antenna	Project:	IPCO72		
	Antenna type:	stamping steel antenna_PIFA				
	Part No.:	5022AA013620				
	<input checked="" type="checkbox"/> Specification	<input checked="" type="checkbox"/> Drawing	<input checked="" type="checkbox"/> Sample	<input checked="" type="checkbox"/> RoHS Report		
	<input type="checkbox"/> CPK Report	<input type="checkbox"/> FAI Report	<input type="checkbox"/> Reliability Report	<input type="checkbox"/> RoHS Questionnaire		
	<input checked="" type="checkbox"/> QC Flow Chart	<input type="checkbox"/> Material Verification Sheet	<input checked="" type="checkbox"/> Packing Content	<input type="checkbox"/> Safety Report		
	* ROHS					
Vendor	Design	Check	Approval:			
Technology Check	Mechanical	Hardware	ID	Sourcing		
	Software	Keypart	Engineering	SQE		
	Project Manager	Product Manager	Customer			
Final Check	Quality Planning		Rohs Status	<input checked="" type="checkbox"/> RoHS <input type="checkbox"/> Non-RoHS		
Approval condition	<input type="checkbox"/> Approved		<input type="checkbox"/> Reject			
Approval condition	<input type="checkbox"/> Conditional Approved	Conditions:				
	<input type="checkbox"/> Temporary Approved	Limited _____ Pcs for purchasing				
Approval by	RD Leader (Technology Director)		Quality Director			
	* Audit by Technology Director or Quality director on the conditions of special approval					
Distribute	<input type="checkbox"/> IQC	<input type="checkbox"/> hardware	<input type="checkbox"/> ME	<input type="checkbox"/> Software	<input type="checkbox"/> Components	<input type="checkbox"/> ID
	<input type="checkbox"/> Vendor	<input type="checkbox"/> Customer	<input type="checkbox"/> outsourcing	<input type="checkbox"/> Engineering	<input type="checkbox"/> SQE	<input type="checkbox"/> Others _____



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REV	DESCRIPTION	DRAWN	DATE
A0	First edition release	Hwg	2024-4-16



scale 1:1

Technical requirements:

1. The geometric dimensions are not indicated with reference to the three-dimensional mathematical model;
2. Material: SUS304,3/4H, T=0.3mm, plated with solderable nickel.
3. The product surface must be free of: oil stains, scratches, deformation, bending and other bad appearance;
4. The maximum allowable burr height is 10% of the material thickness.
5. The "j±" dimension is the key dimension, and the "*" dimension is the SPC dimension (CPK ≥ 1.33);
6. Any modification of materials must be approved in writing by the customer's engineering department;
7. The product meets RoHS requirements.

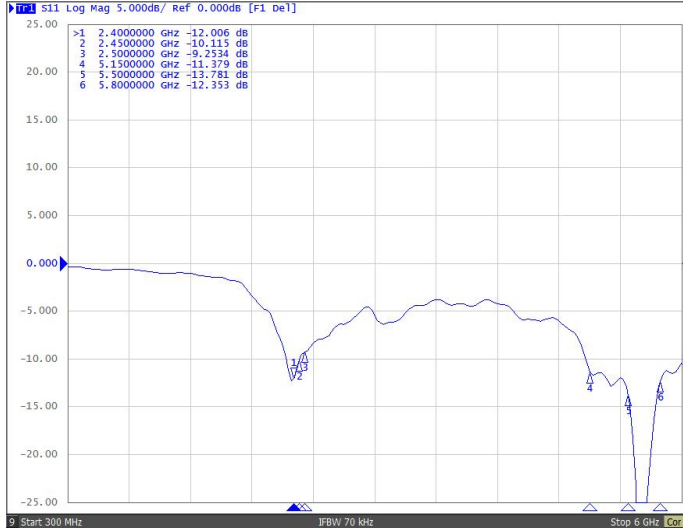
Unmarked tolerances (MM)		Part Name	Drawing No. /Part No.	Customer P/N:	Drawing Size		
Size range	Tolerance				REV	A0	
>	≤	Spec.	XMI_IPC072_ACC1, stamping steel antenna	CM0330-W01-10			
0.00	3.00		SUS304, 3/4H, T=0.3mm	5022AA013620			
3.00	6.00	Drawn	Hwg	1 st Projection	Scale	Unit	/ 1
6.00	30.00	E.E.			1:1	mm	Frame Size A4
30.00	120.00	APPROVED					
120.00	400.00						
400.00	~						
Unmarked angle					Nunshan Yuzhiheng Electronics and Technology Co.,Ltd.		
	±0.5°						

Reliability test report

Customer	Chuangmi	Written By	WENFENG	Orig. Date	2024/1/16
Part Number	5022AA013620	Revised By	lanxuehua	Revised Date	2024/1/16
Description1	CM0330-W01-10	Approved By	panxinpu	Approved Date	2024/1/16
Test date: 2024/4/16			The experimental code: 20240416001		
The experimental method: Salt spray test			The experimental standard: Box test		
sample	The name of the	CM0330-W01-10	The thickness of the coating	NI	AU
	The material	SUS304	2~8um		
	Appearance before experiment	ok	Quantity	5 PCS	
Experimental conditions	The experimental time: 20024/4/16, 15:00 ~20024/4/18, 15:00				
	Spray time: 48 hours		Moisturizing time: 48 hours		
	Laboratory temperature: 35°C±2°C		Pressure drum temperature: 46°C±2°C		
	Laboratory relative humidity: 65%—75%		Atmospheric pressure: 101-02KPA		
	NACL concentration: 5%±0.5%		PH: 6.5-7.2 (neutral)		
The experiment described	Post-experiment appearance	Appearance normal, no obvious corrosion phenomenon			
	Appearance after removal of corrosion products	Appearance of the normal			
The experimental results	OK				
note					
Approved by the :maruiguo audit:sunny Testing persone:tangyinglong					

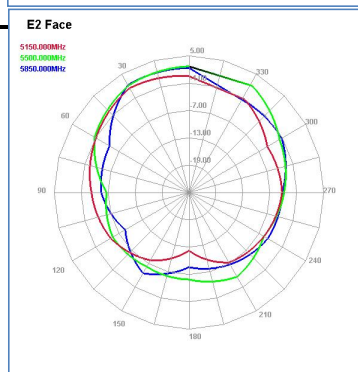
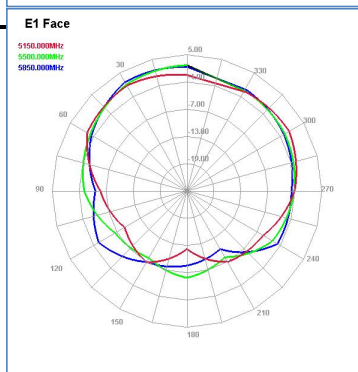
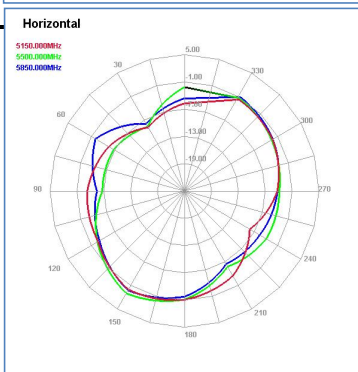
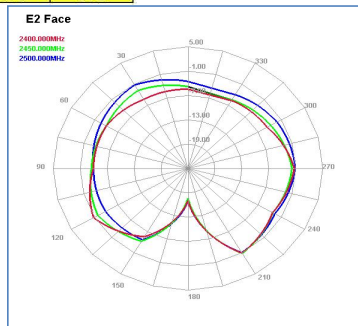
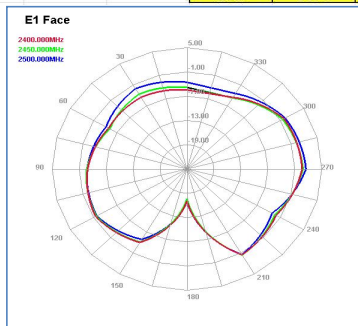
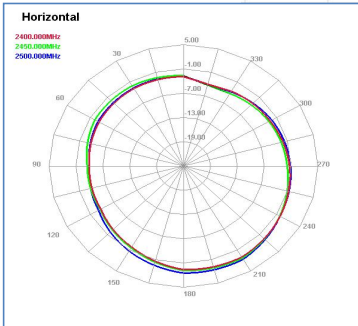
Antenna Performance Report

Customer	Chuangmi	Written By	WENFENG	Orig. Date	2024/1/23
Part Number	5022AA013620	Revised By	Xuehua Lan	Revised Date	2024/1/23
Description1	CM0330-W01-10	Approved By	Sinfo Pan	Approved date	2024/1/23



Antenna Type: stamping steel antenna_PIFA

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	64.7	-1.9	0.9	5150	50.6	-3.0	0.8
2410	63.0	-2.0	1.0	5200	50.8	-2.9	1.1
2420	64.1	-1.9	1.2	5250	63.4	-2.0	1.4
2430	62.3	-2.1	1.3	5300	57.5	-2.4	0.9
2440	63.8	-2.0	1.3	5350	56.0	-2.5	0.9
2450	66.1	-1.8	1.4	5400	56.6	-2.5	0.9
2460	60.2	-2.2	1.2	5450	65.3	-1.9	1.3
2470	59.8	-2.2	1.2	5500	57.5	-2.4	1.4
2480	54.4	-2.6	0.8	5550	56.9	-2.5	1.2
2490	61.4	-2.1	1.3	5600	50.9	-2.9	0.9
2500	57.4	-2.4	1.0	5650	65.4	-1.9	1.3
AVE	61.6	-2.1	1.1	5700	69.0	-1.6	1.4
				5750	69.2	-1.6	1.3
				5800	64.0	-1.9	1.2
				5850	67.6	-1.7	1.3
				AVE	60.0	-2.2	1.2



Antenna Test Configuration

Customer	Chuangmi	Written By	WENFENG	Orig. Date	2024/1/23
Part Number	5022AA013620	Revised By	Xuehua Lan	Revised Date	2024/1/23
Description1	CM0330-W01-10	Approved By	Sinfo Pan	Approved date	2024/1/23

OTA Test System			
No.	Name	Model	Manufacturer
1	RF shielded Anechoic Chamber	4*3*3	Guangping
2	RF switch box		Guangping
3	ENA	E5071C	Keysight
4	Radio Communication Analyzer	CMW500	R&S

