



Integral Antenna

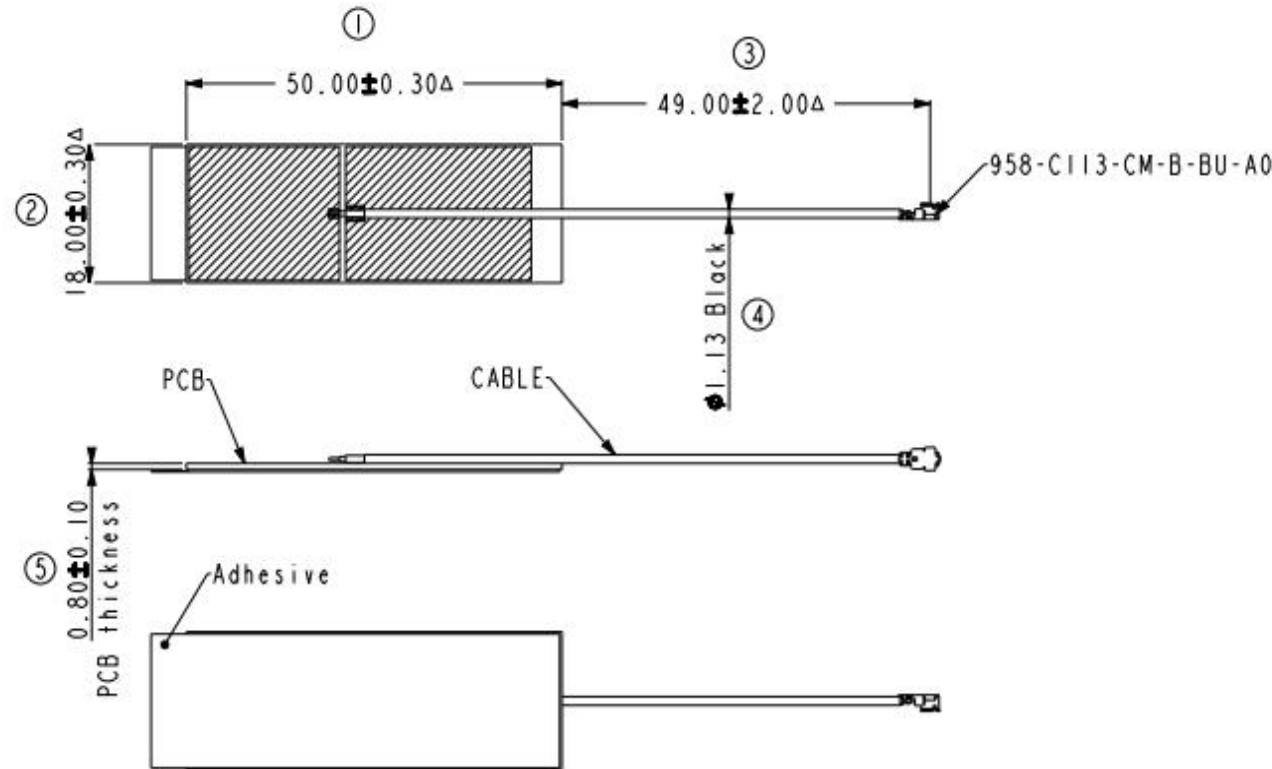
Part Description	Manufacturer Kunshan Yunzhihong Electronic Technology Co. LTD.		Description:	CM0359-W03-00	
	Manufacturer Address:No.399, Jujin Road, Zhangpu Town, Kunshan City, Jiangsu Province				
	Product Name: IMI IPC115 ACE1,WIFI Antenna		Project:	IPC115	
	Antenna type: Built in antenna PCB+cable				
	Part No.: 5022AA013622				
Attachments:	☒ Specification		☒ Drawing		☒ Sample
	☒ RoHS Report				
	☐ CPK Report	☐ FAI Report	☐ Reliability Report	☐ RoHS Questionnaire	
	☒ QC Flow Chart	☐ Material Verification Sheet	☒ Packing Content	☐ 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	☒ RoHS ☐ Non-RoHS
Approval condition	☐ Approved ☐ Reject				
	☐ Conditional Approved Conditions:				
	☐ Temporary Approved Limited_____Pcs for purchasing				
Approval by	RD Leader （Technology Director ）			Quality Director	
	* Audit by Technology Director or Qunality director on the conditions of special approval				
Distribute	☐ IQC	☐ hardware	☐ ME	☐ Software	☐ Components
	☐ Vendor	☐ Customer	☐ outsoucing	☐ Engineering	☐ SQE
	☐ ID ☐ Others _____				



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REV	DESCRIPTION	DRAWN	DATE
A0	First edition release	Hwg	2024-7-26



- Technical requirements:
1. The components should comply with all 2D/3D data, and if dimensions are not specified, refer to the actual drawings;;
 2. After assembly, there should be no obvious appearance defects, and the welded products should not have welding defects such as virtual welding or false welding;;
 3. Without permission, it is not allowed to modify the corresponding materials and processes;;
 4. 100% antenna performance consistency test;;;
 5. The size marked with "Δ" is the key size;
The "*" indicates the CPK size;;
 6. The product complies with RoHS requirements.

Unmarked tolerances (mm)			Part Name	IMI IPC115 ACE1,WIFI Antenna	Drawing No. /Part No.	CM0359-W03-00			Drawing REV A0
Size range		Tolerances							
>	≤		Spec.	PCB+cable	Customer P/N:	5022AA013622			
0.00	3.00	±0.10	Drawn	HWG	1" Projection	Scale	Unit	/ 1	
3.00	6.00	±0.10							
6.00	30.00	±0.20	E.E.			1:1	mm	Frame Size A4	
30.00	120.00	±0.30							
120.00	400.00	±0.50	APPROVED						
400.00	~	±0.80							
Unmarked angle		±0.5°	Kunshan Yanzhihong Electronics and Technology Co.,Ltd						

Full Dimensions Report

[illegible]

Reliability test report

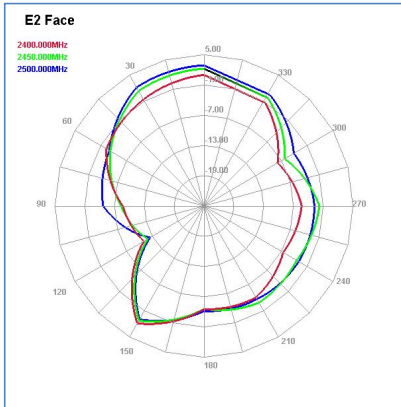
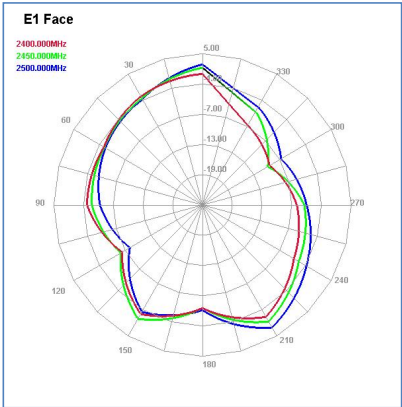
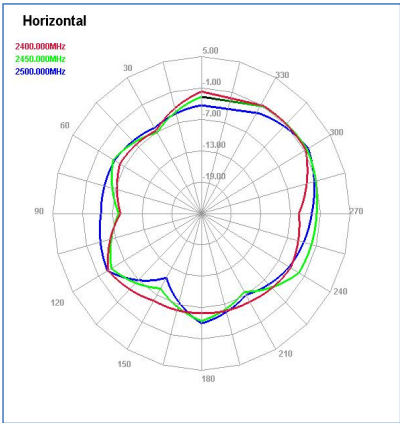
Customer	Chuangmi	Written By	WENFENG	Orig. Date	2024/6/29
Part Number	5022AA013622	Revised By	lanxuehua	Revised Date	2024/6/29
Description1	IMI IPC115ACE1, WIFI Antenna	Approved By	panxinpu	Approved Date	2024/6/29
Test date: 2024/6/28			The experimental code: 2024062802		
The experimental method: Salt spray test			The experimental standard: Box test		
sample	The name of the	5022AA013622	The thickness of the coating	NI	AU
	The material	PCB+CABLE			
	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℃±2℃		Pressure drum temperature: 46℃±2℃		
	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	2024/6/29
Part Number	5022AA013622	Revised By	Xuehua Lan	Revised Date	2024/6/29
Description1	IMI IPC115ACE1, WIFI Antenna	Approved By	Sinfo Pan	Approved date	2024/6/29



Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	57.5	-2.4	1.3
2410	58.9	-2.3	1.3
2420	57.5	-2.4	1.0
2430	60.3	-2.2	1.1
2440	61.7	-2.1	0.9
2450	66.1	-1.8	1.0
2460	61.7	-2.1	0.4
2470	63.1	-2.0	0.5
2480	61.7	-2.1	0.6
2490	67.6	-1.7	1.1
2500	64.6	-1.9	1.5
AVE	61.9	-2.1	1.0



Antenna Test Configuration

Customer	Chuangmi	Written By	WENFENG	Orig. Date	2024/6/29
Part Number	5022AA013622	Revised By	Xuehua Lan	Revised Date	2024/6/29
Description1	IMI IPC115ACE1, WIFI Antenna	Approved By	Sinfo Pan	Approved date	2024/6/29

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

