

# 承 認 書

APPROVAL

廠 商  
CUSTOMER 神準科技股份有限公司

料 號  
PART NO. 7102A0545000

品 名  
PARTNAME ANT DIPOLE 2.4/5GHz A8EEE-000001 WHITE

生產廠商  
COMPANY AWAN\_連騰

備 註  
PART NO

日 期  
DATE 2020.06.20

產品重量(g):  
WEIGHT 14.8G

產品主要材質:  
MAIN MATERIAL Cable + Plastic holder + SMA + PCB

公 司  
COMPANY 連騰科技股份有限公司

地 址  
ADDRESS 新北市新店區北新路三段207-1號B2-F室

電 話 :  
TELEPHONE 886-2-8913-1939

傳 真 :  
FAX 886-2-8913-2538

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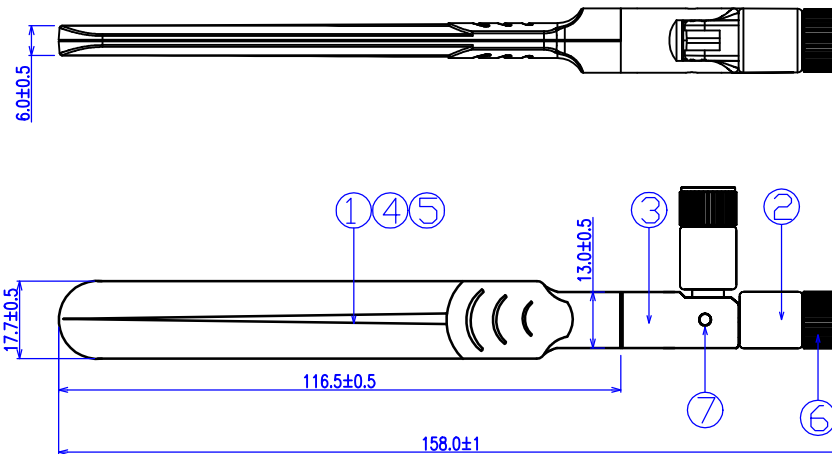
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AWAN P/N	A8EEE-000001
SENAO P/N	7102A0545000

Rev.	EC#	Description	Drawn/Date	Checked/Date	Approved/Date
X1		New Release	Roy 05/23/22'	Louis 05/23/22'	Louis 05/23/22'



Electrical Properties	
Frequency	2400~2500 MHz 5150~5850 MHz
Impedance	50 Ohm Nominal
VSWR	< 2
Gain	2.4G~2.5G @ 3dBi±0.5dBi 5.15G~5.85G @ 5dBi±0.5dBi
Polarization	Linear
Mechanical Properties	
CASE	ABS
CONNECTOR	SMA公頭母針
CASE COLOR	White
Operating Temp	-40 ~ +80 °C
Waterproof level	無

7	塑膠射針	2		POM FM090
6	SMA公頭母針	1		Cann
5	天線PCB FR4	1		PCB
4	Ø1.37mm L/L Gray Cable	1		CABLE
3	上殼底座	1		PC S2000VR
2	下殼底座	1		PC/PBT ALLOY A724
1	圖形標表上下殼	1		ABS PA757
Item	Name	Q'ty	Part #	Material / Finish
Tolerances Unless Otherwise Specified				
General	X, ±1.00	Drawn	Roy	Date 05/23/22'
	.XX ±0.50	Design	Roy	Date 05/23/22'
	.XXX ±0.05	Checked	Louis	Date 05/23/22'
Angles	X, ±3.0°	Approved	Louis	Date 05/23/22'
	.XX ±1.0°	3D File		
Scale	1 : 1	30 File		
Sheet	1 of 1	Customer Drawing		
Unit	mm	Drawn		
Title		WB-AP3000X 2&5G_DB_DIPOLE-ANT_HF		
Series		A8EEE Series A3		
Rev		X1		
Dwg No.		C-A8EEE-01-00		

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符合連展環境管理物質技術標準  
All materials meet the ACON's spec. Environment - related substances management technical standard.

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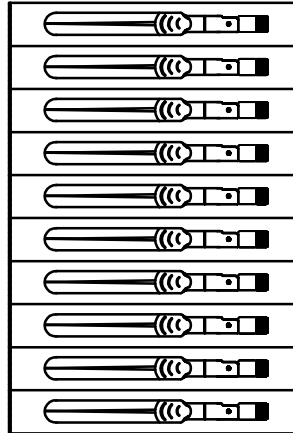
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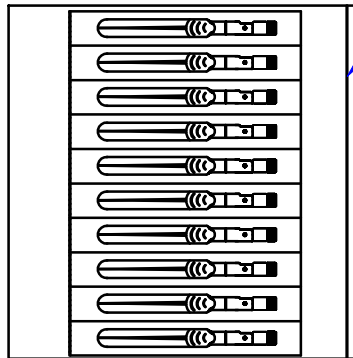
排袋尺寸305\*205\*0.1mm



10 PCS產品/排袋



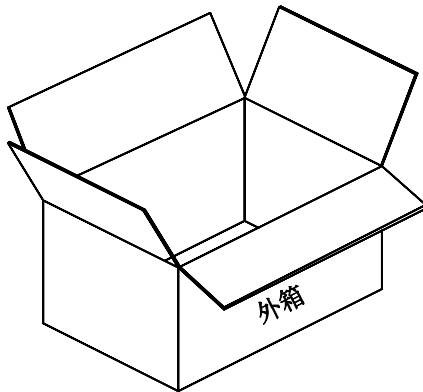
PE袋尺寸250\*250\*0.1mm



夾鏈

50 PCS產品/PE袋

外箱使用透明膠帶工字型封裝



500 PCS產品/箱

外箱尺寸：31\*30\*20 CM

Rev.	EC#	Description	Drawn/Date	Checked/Date	Approved/Date
X1		New Release	Roy 04/27/22'	Louis 04/27/22'	Louis 04/27/22'

Part Number	PCS/排袋	PCS/PE Bag	PCS/Carton	N.W(kgs)	G.W(kgs)
A8EEE-000001	10	50	500		

A

B

C

D


E

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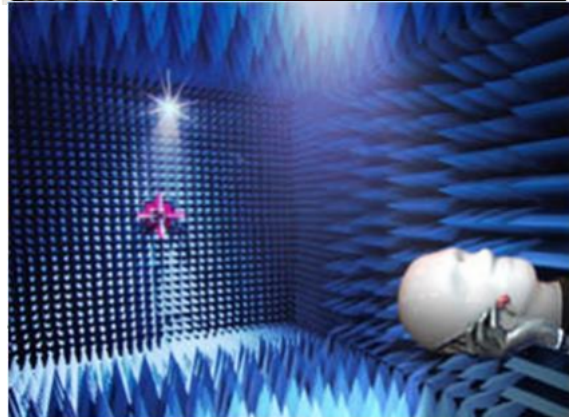
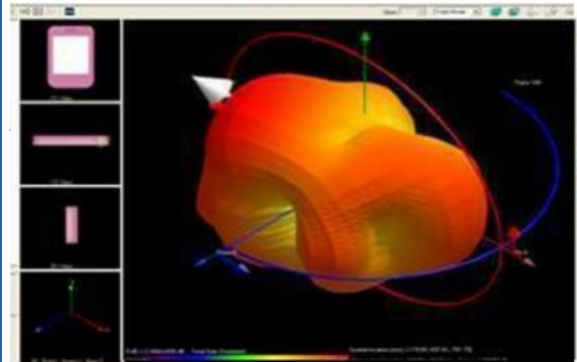
HSF 相關均質拆分及測試點選擇參照 <HSF 均質物質拆分作業圖示表>

Tolerances Unless Otherwise Specified		Drawn	Date	
General		Roy	04/27/22'	
Angles		Design	Date	WB-AP3000X_2&5G_DB_Dipole-Ant PACKAGE DRAWING
		Roy	04/27/22'	
Scale		Checked	Date	
		Louis	04/27/22'	
Sheet 1 of 1		Approved	Date	Series A8EEE Series A3 Part No. P-A8EEE-01-00 Rev. X1
Unit mm		Louis	04/27/22'	
3D File				

符合AWAN環境管理物質技術標準  
All materials meet the AWAN's spec. Environment - related substances management technical standard.

# AWAN-DB Dipole Antenna

AWAN S/N: A8EEE-000001  
Customer S/N: 7102A0545000



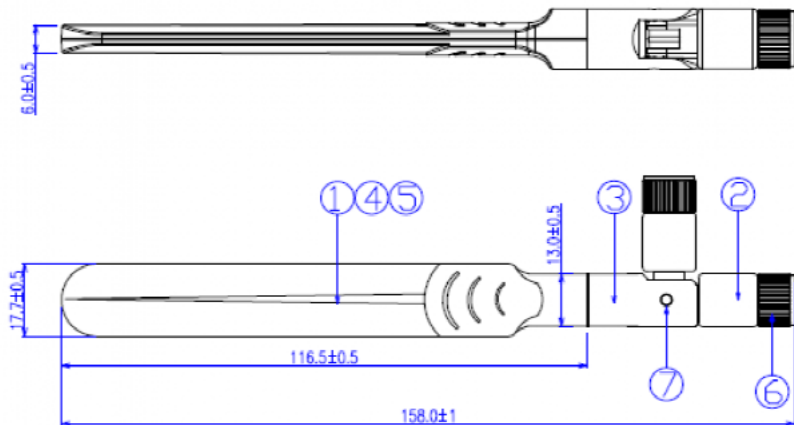
- Antenna proposal and specification
- Antenna Placement
- Measurement data

- Antenna proposal and specification
- Antenna Placement
- Measurement data



## Antenna Proposal

Antenna type	• Dipole array
Frequency	2400 ~ 2500 MHz 5150 ~ 5850MHz
Impedance	50 Ohm Nominal
VSWR	< 2
Gain	2.4G ~ 2.5G @ 3dBi $\pm$ 0.5dBi 5.15G ~ 5.85G @ 5dBi $\pm$ 0.5dBi
Efficiency	2.4G ~ 2.5G @ 55~60% 5.15G ~ 5.85G @ 60~70%
Polarization	Linear
Physical Properties	
Operating Temp	-40 ~ +80 ° C
Storage Temperature	-45 ~ +85 ° C
Connector	SMA Male



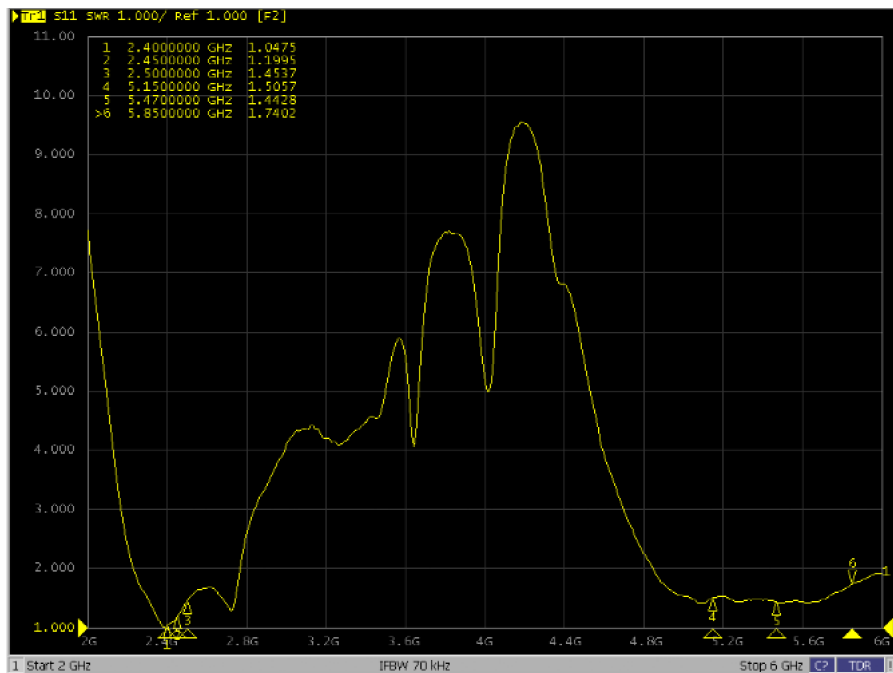
RP-SMA PLUG  
公頭母針



- Antenna proposal and specification
- Antenna Placement
- Measurement data

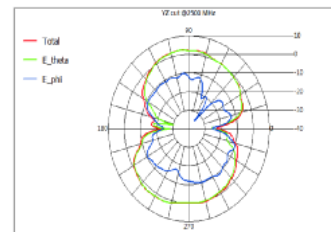
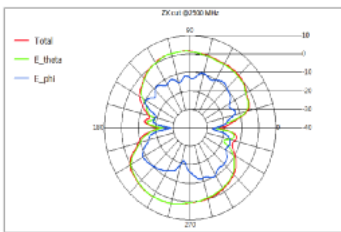
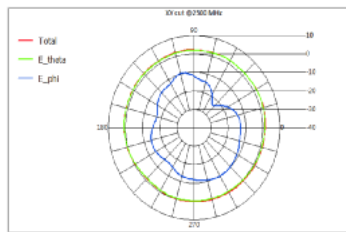
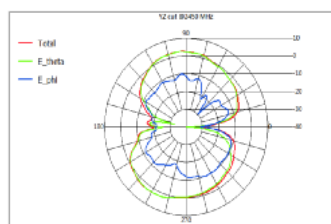
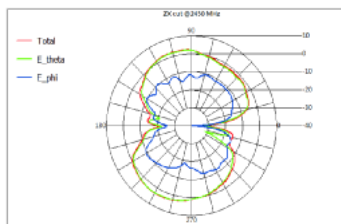
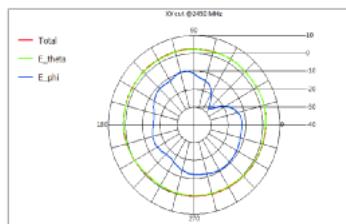
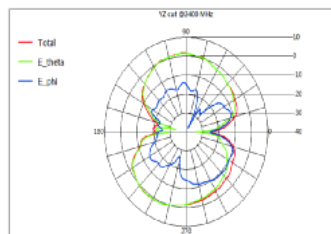
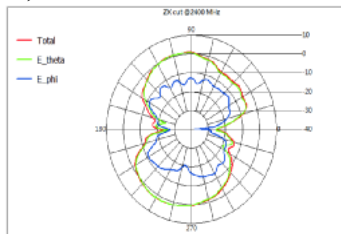
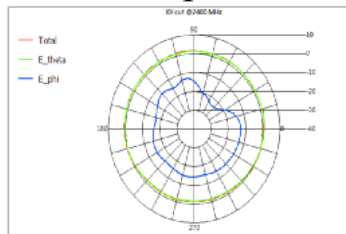
- Antenna proposal and specification
- Antenna Placement
- Measurement data
  - VSWR
  - Radiation pattern
  - Gain table

## VSWR



- Antenna proposal and specification
- Antenna Placement
- Measurement data
  - VSWR
  - Radiation pattern
  - Gain table

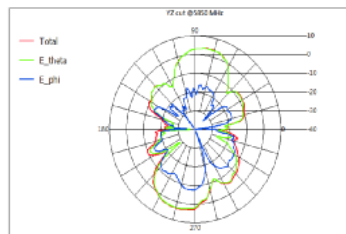
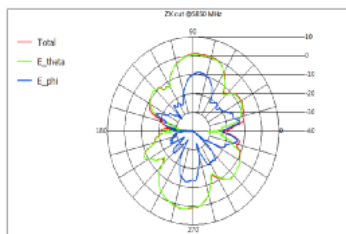
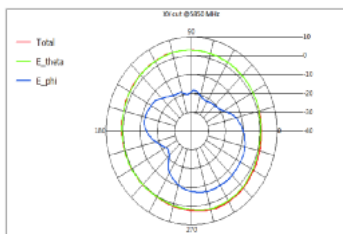
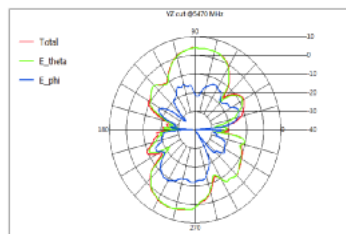
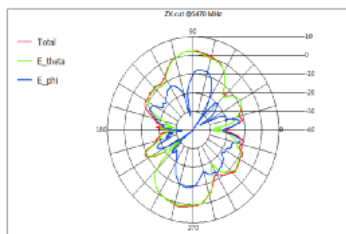
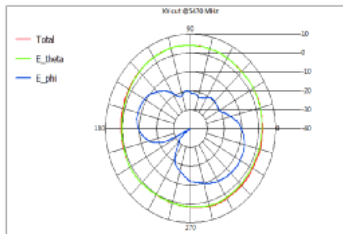
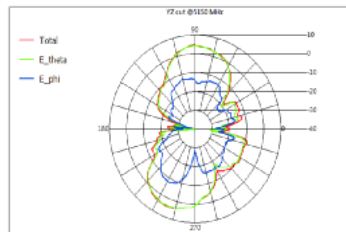
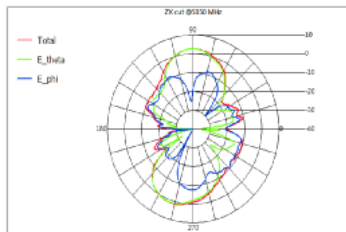
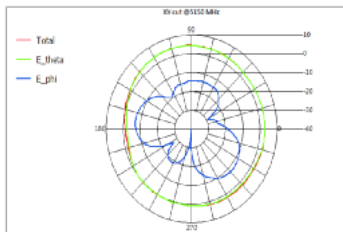
## Radiation pattern 2.4G (2D)



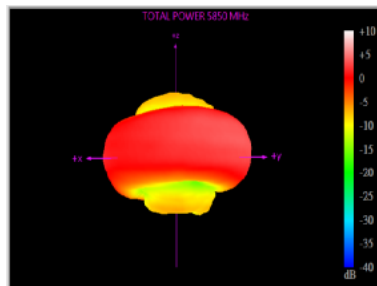
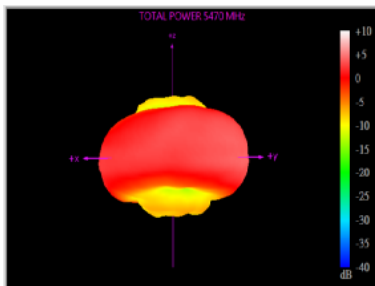
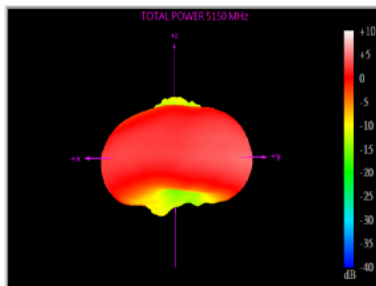
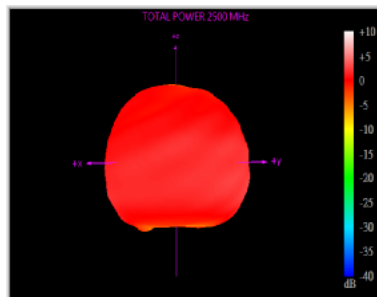
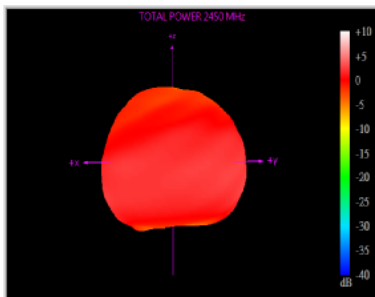
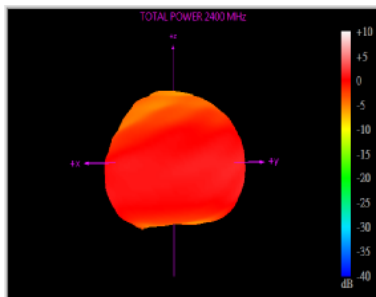
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## Radiation pattern 2.4G & 5G(3D)



- Antenna proposal and specification
- Antenna Placement
- Measurement data
  - VSWR
  - Radiation pattern
  - Gain table



## Gain table

Frequency (MHz)	Peak Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	3.08	-2.20	60.28
2450	3.17	-2.27	59.33
2500	3.23	-2.35	58.15
5150	5.11	-1.90	64.63
5250	4.67	-1.85	65.37
5350	5.02	-1.63	67.75
5470	4.85	-1.95	63.79
5725	5.15	-2.04	62.55
5850	5.22	-2.17	60.64

# 材料組成表

廠商: 昆山展騰電子科技有限公司

機種: 2&5G\_DB\_DIPOLE-ANT

14.8g

料號: A8EEE-000001

料號/品名	材料組成 (須至均質單位)	供應商
線	1.37低損耗同軸線灰色	AWAN
桿套	ABS	AWAN
上固定座	PC+PBT	AWAN
下固定座	PC+PBT	AWAN
SMA頭	公頭母針	AWAN
PCB	FR4	AWAN
鉚釘		AWAN



\*天線功能較為敏感，主體周邊機構有變更請通知我們評估

\*PCB OSP、處氧化（黑斑）屬正常現象，並不影響其功能特性