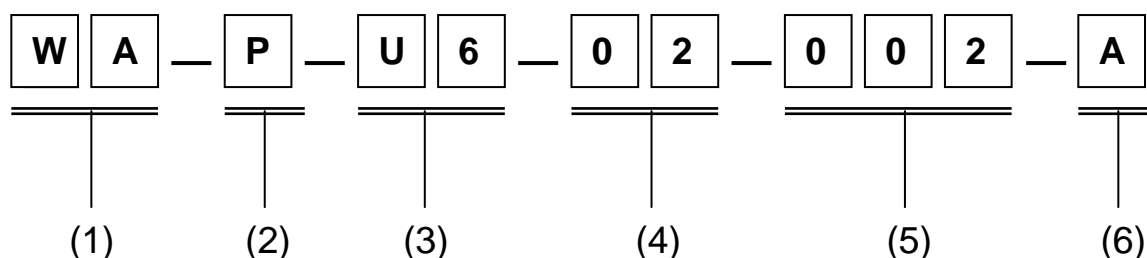


Embedded Dual-Band Antenna for WA-P-U6-02-002-A

1. Explanation of part number :



- (1) Product type : Wireless Antenna
- (2) Material : PCB
- (3) Frequency : 890-960MHz;1710~1880MHz
- (4) Coaxial Cable Type : Black Cable
- (5) Suffix : 002
- (6) Version : A

2. Electrical Specification :

Those specifications were specially defined for **GSM Antenna**, and all characteristics were measured under the model's handset testing jig.

2-1. 890-960MHz :

Characteristics		Specifications	Unit
Outline Dimension		35 x 6 x 0.8	mm
Center Frequency		925	MHz
VSWR		3 max.	
Polarization		Linear Polarization	
Impedance		50	Ω
Gain	Peak	3.52 (typical)	dBi
	Efficiency	46.98 (typical)	%

2-2. 1710-1880MHz :

Characteristics		Specifications	Unit
Center Frequency		1795	MHz
VSWR		3 max.	
Polarization		Linear Polarization	
Impedance		50	Ω
Gain	Peak	4.36 (typical)	dBi
	Efficiency	37.76 (typical)	%

UNLESS OTHER SPECIFIED TOLERANCES ON :
 X=N/A X.X=N/A X.XX=N/A
 ANGLES=N/A HOLEDIA=N/A



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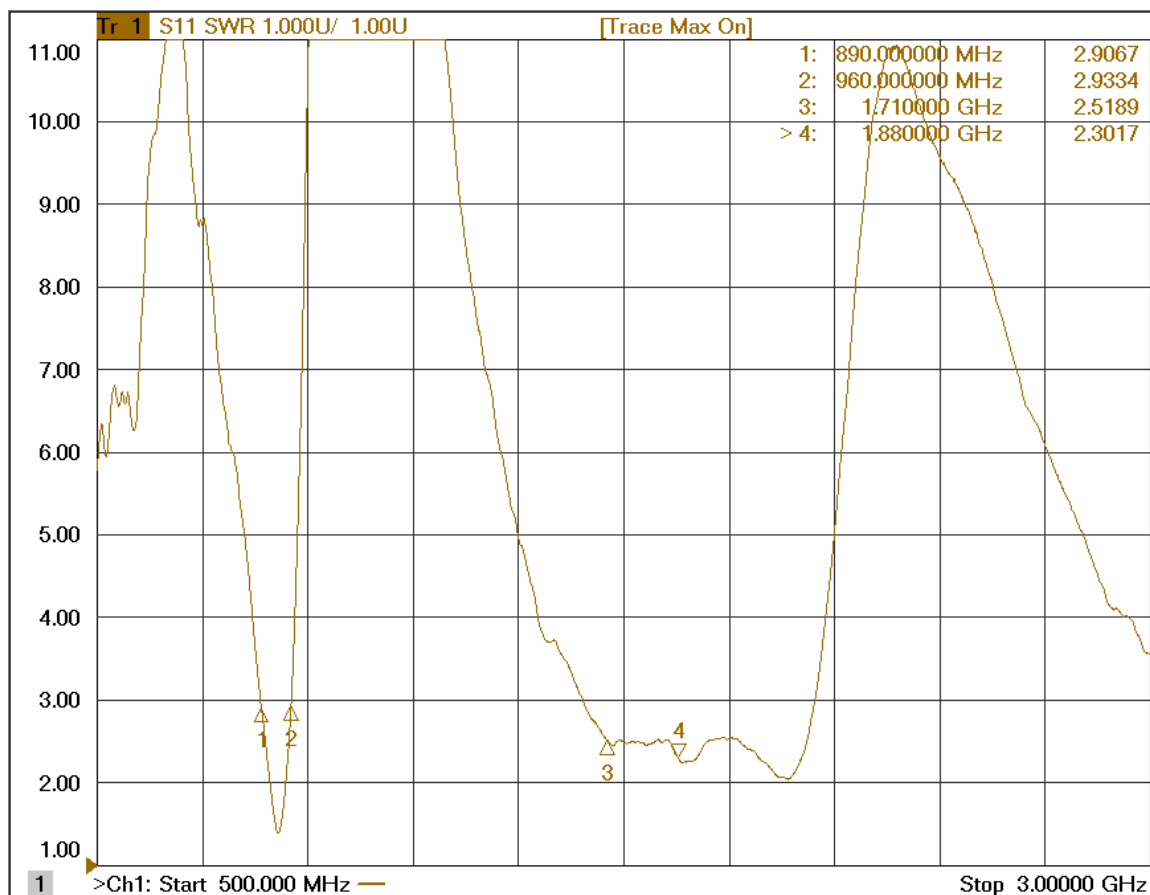
SCALE : N/A UNIT : mm
 DRAWN BY : 郭副哲 CHECKED BY : 劉維林
 DESIGNED BY : 劉恒佑 APPROVED BY : 謝立庭

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2-3. VSWR : (With ABS)



UNLESS OTHER SPECIFIED TOLERANCES ON :
 X=N/A X.X=N/A X.XX=N/A
 ANGLES=N/A HOLEDIA=N/A



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SCALE : N/A UNIT : mm

DRAWN BY : 郭副哲 CHECKED BY : 劉維林

DESIGNED BY : 劉恒佑 APPROVED BY : 謝立庭

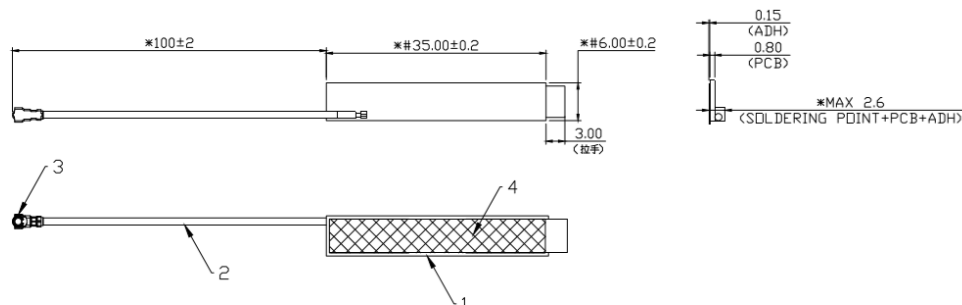
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3. Mechanical Specification :

3.1 Mechanical Configuration :



- NOTE:
- 外觀標準：需完整無缺損，不可有變形、磨刮、毛邊、氣泡、裂縫、褶皺等情形。
Appearance standard : They must be complete. It means those must not have the deformations, dirt, burrs, warps, cracks, folds, etc.
 - 工程圖上“*”號為重要尺寸與註釋。
Mark “*” are the key dimensions.
 - 工程圖上“#”號為CPK量測尺寸與註釋。
Mark “#” are CPK dimensions.
 - DOCK&FQC只稱量測重要尺寸&CPK
CPK&KEY dimensions for DOCK&FQC.
 - 不含第一級管理物資
Not include 1st-grade managed materials
 - 符合IP要求
Comply with IP standard

The appearance of the antenna is according to drawing Figure 3.1.1
REV.P0

ITEM	DESCRIPTION	MATERIAL SPECIFICATION	QUANTITY	UNIT
1	PCB	35x6x0.8	1	PCS
2	Cable	OD1.13 LLS	1	PCS
3	Connector	I-PEX MHF I-PEX Equivalent(compatible)	1	PCS
4	Adhesive	34x5x0.15	1	PCS

Figure 3.1.1 The antenna drawing

UNLESS OTHER SPECIFIED TOLERANCES ON :
X=N/A X.X=N/A X.XX=N/A
ANGLES=N/A HOLEDIA=N/A



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SCALE : N/A

UNIT : mm

DRAWN BY : 郭副哲

CHECKED BY : 劉維林

DESIGNED BY : 劉恒佑

APPROVED BY : 謝立庭

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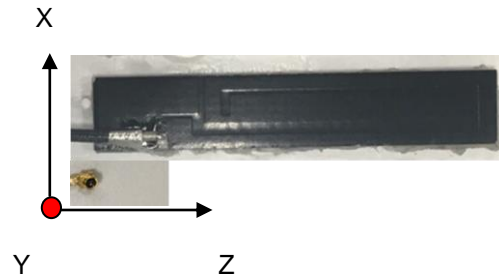
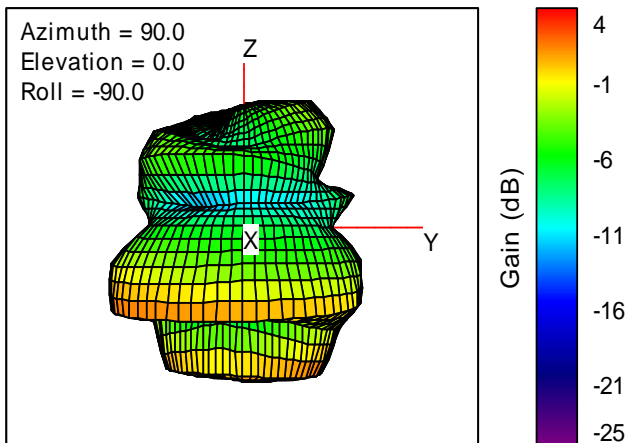
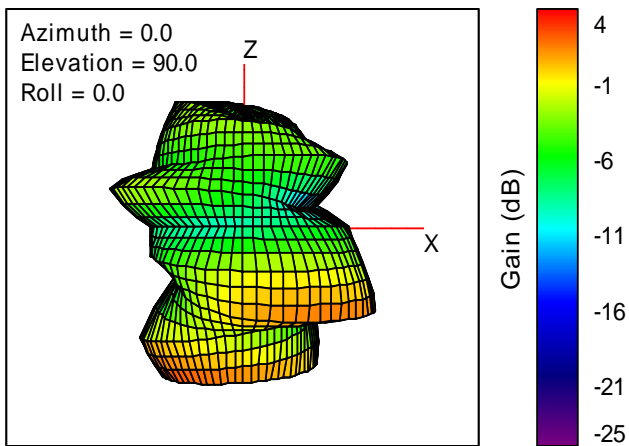
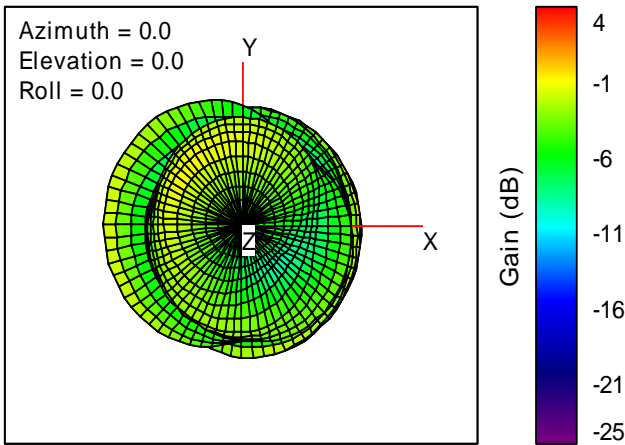
DOCUMENT NO.


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P0

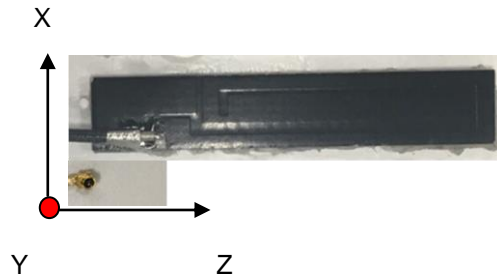
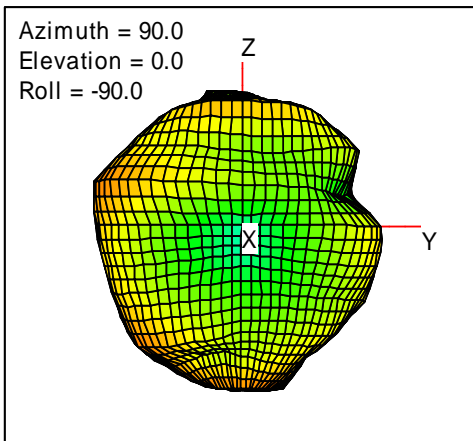
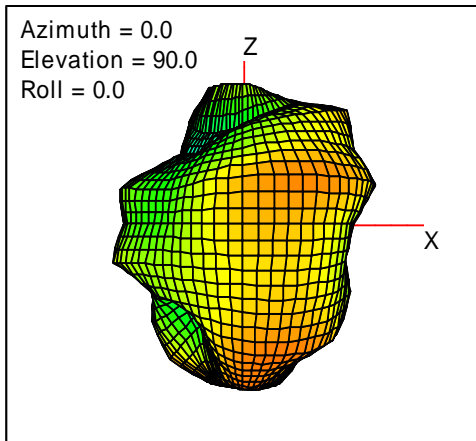
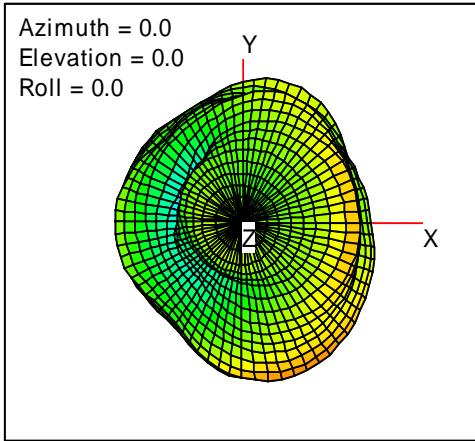
4. Radiation Pattern(With ABS)

4.1 890-960 MHz Band



UNLESS OTHER SPECIFIED TOLERANCES ON : X=N/A X.X=N/A X.XX=N/A ANGLES=N/A HOLEDIA=N/A			INPAQ TECHNOLOGY CO., LTD.	
SCALE : N/A	UNIT : mm			
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DESIGNED BY : 劉恒佑	APPROVED BY : 謝立庭			
TITLE : Embedded Dual-Band Antenna for WA-P-U6-02-002-A		DOCUMENT NO.	ENS000125610	SPEC REV. P0

4.2 1710~1880MHz Band



UNLESS OTHER SPECIFIED TOLERANCES ON :	
X=N/A	X.X=N/A X.XX=N/A
ANGLES=N/A	HOLEDIA=N/A
SCALE : N/A	UNIT : mm
DRAWN BY : 郭副哲	CHECKED BY : 劉維林
DESIGNED BY : 劉恒佑	APPROVED BY : 謝立庭
TITLE : Embedded Dual-Band Antenna for WA-P-U6-02-002-A	



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5. Efficiency Table(With ABS)

5.1 890~960MHz

Frequency(MHz)	890	910	930	950	960
Efficiency(dB)	-2.94	-2.86	-2.99	-3.15	-3.28
Efficiency(%)	50.73	51.69	50.14	48.35	46.98
Gain(dBi)	3.19	3.52	3.37	2.86	2.39

5.2 1710~1880

Frequency(MHz)	1710	1730	1750	1770	1790	1810	1830	1850	1880
Efficiency(dB)	-3.26	-3.13	-3.36	-3.00	-3.15	-3.42	-3.20	-3.92	-4.23
Efficiency(%)	47.22	48.64	46.18	50.09	48.37	45.53	47.91	40.52	37.76
Gain(dBi)	2.75	2.49	3.63	4.39	4.01	3.64	1.83	0.85	0.67

UNLESS OTHER SPECIFIED TOLERANCES ON :
 X=N/A X.X=N/A X.XX=N/A
 ANGLES=N/A HOLEDIA=N/A



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