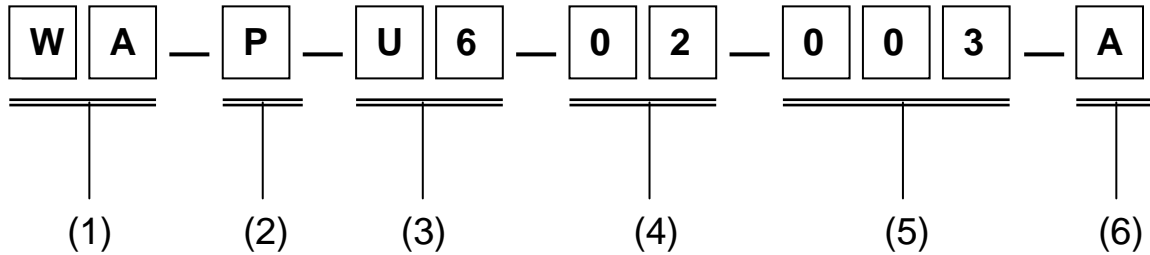


Embedded Dual-Band Antenna for WA-P-U6-02-003-A

1. Explanation of part number :



- (1) Product type : Wireless Antenna
- (2) Material : PCB
- (3) Frequency : 903-957MHz;2000-2230MHz
- (4) Coaxial Cable Type : Black Cable
- (5) Suffix : 003
- (6) Version : A

2. Electrical Specification :

Those specifications were specially defined for **GSM Antenna**, and all characteristics are measured in free space.

2-1. 903-957MHz :

Characteristics	Specifications	Unit
Outline Dimension	35 x 6 x 0.8	mm
Center Frequency	930	MHz
VSWR	3 max.	
Polarization	Linear Polarization	
Impedance	50	Ω
Gain	Peak	3.17
	Efficiency	46.99
		dBi
		%

2-2. 2000-2230MHz :

Characteristics	Specifications	Unit
Center Frequency	2115	MHz
VSWR	3 max.	
Polarization	Linear Polarization	
Impedance	50	Ω
Gain	Peak	4.89
	Efficiency	48.53
		dBi
		%

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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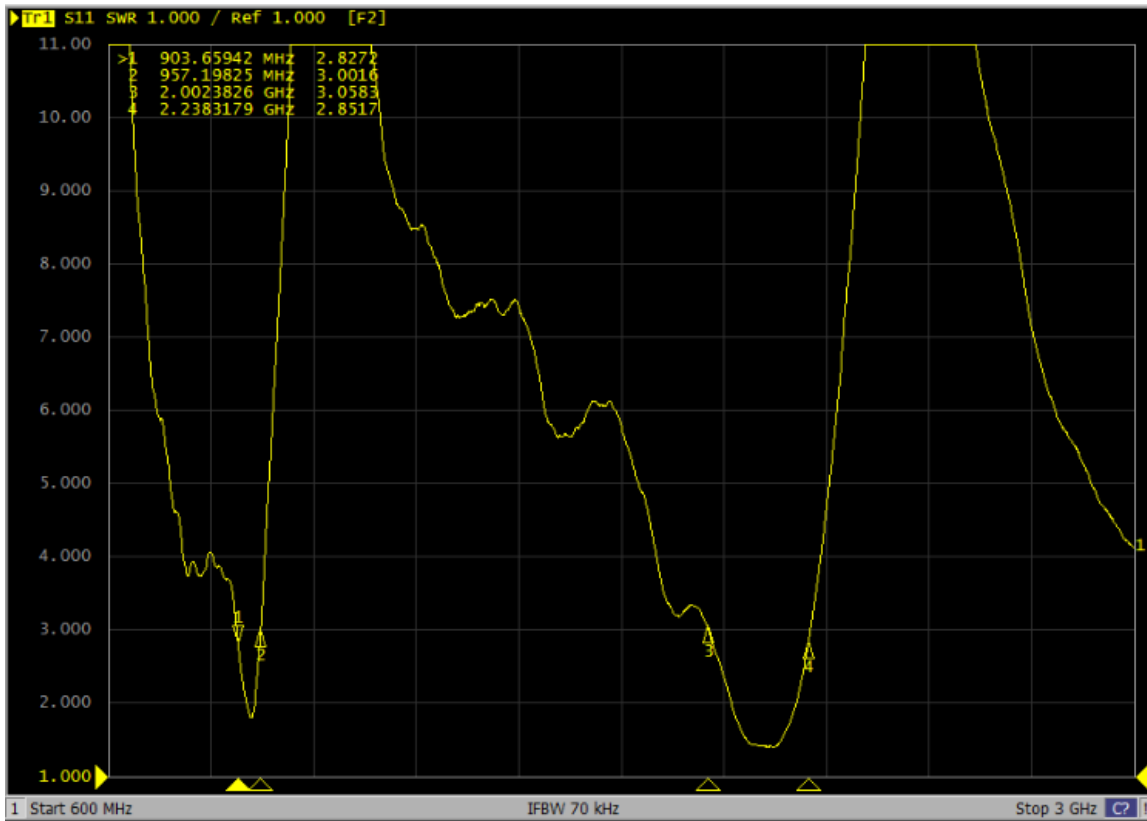
SCALE : N/A UNIT : mm
 DRAWN BY : 涂正憲 CHECKED BY : 鄭榮謀
 DESIGNED BY : 劉恒佑 APPROVED BY : 謝立庭


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TITLE : Embedded Dual-Band Antenna for
 WA-P-U6-02-003-A

DOCUMENT NO.	ENS000140330	SPEC REV.
		A1

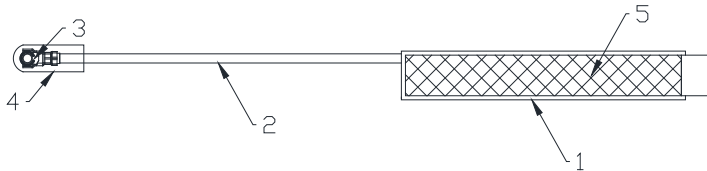
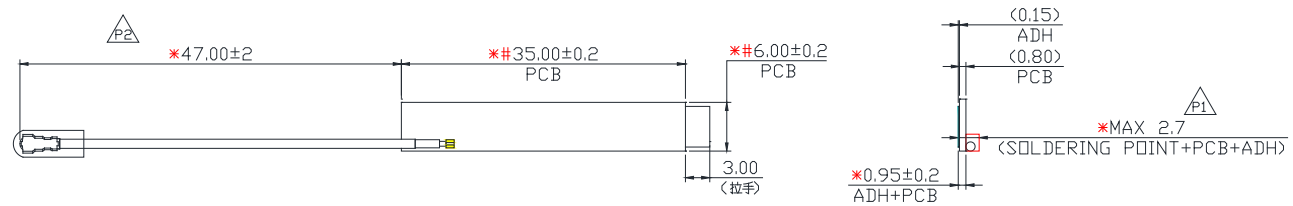
2-3. VSWR : (Free Space)



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-U6-02-003-A		DOCUMENT NO.	ENS000140330	SPEC REV. A1

3. Mechanical Specification :

3.1 Mechanical Configuration :



- NOTE:
- 外觀標準: 需完整無破損, 不可有變形、髒污、毛邊、翹曲、裂縫、褶疊等情形。
Appearance standard: They must be complete. It means those must not have the deformations, dirt, burrs, warps, cracks, folds, etc.
 - 工程圖上*#號為重點尺寸標註指示。
Mark *# are the key dimensions.
 - 工程圖上#號為Cpk量測尺寸標註指示。
Mark # are CPK dimensions.
 - QC&FQC 只需量測重點尺寸&CPK
CPK&KEY dimensions for QC&FQC.
 - 不含有一級管理物質
Not include 1st-grade managed materials
 - 符合GP要求
Comply with GP standard
 - 工程變更符號△
Engineering Change symbol '△'

Information: 3M9888T

The appearance of the antenna is according to drawing Figure 3.1.1
REV.P2.A0

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	接頭套管	OD3.0x20mm	1	PCS
5	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



INPAQ TECHNOLOGY CO., LTD.

SCALE : N/A

UNIT : mm

DRAWN BY : 涂正憲

CHECKED BY : 鄭榮謀

DESIGNED BY : 劉恒佑

APPROVED BY : 謝立庭

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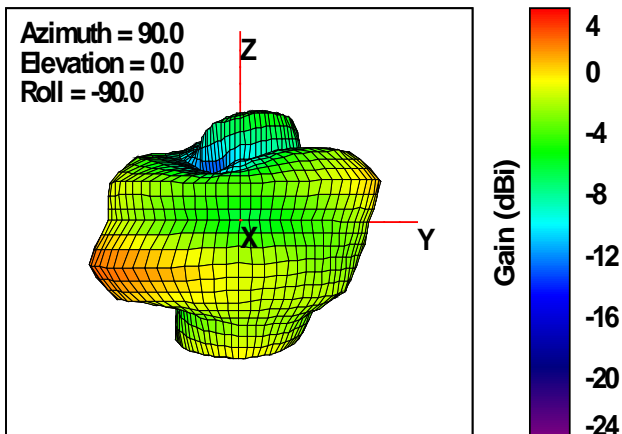
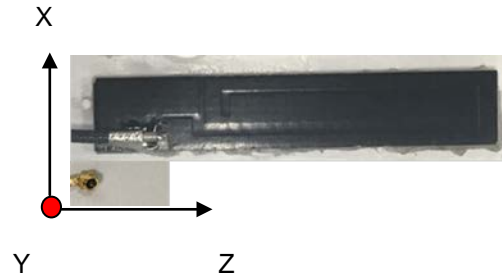
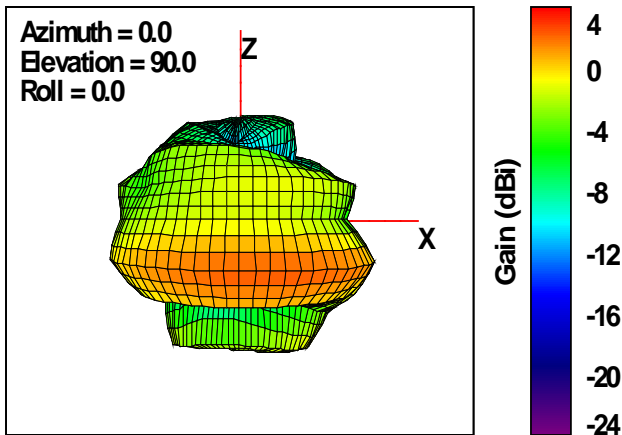
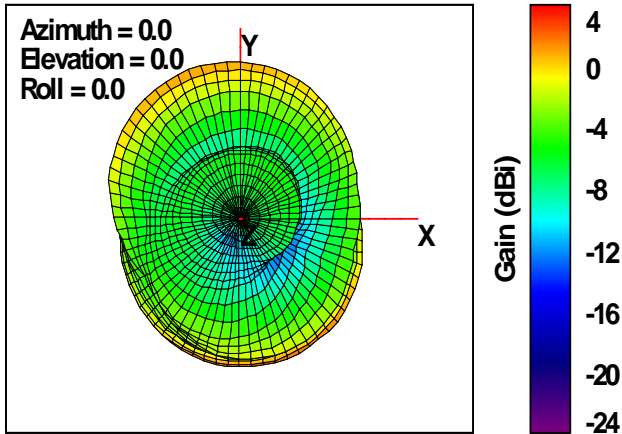
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4. Radiation Pattern (Free Space)

4.1 903-957 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

DRAWN BY : 涂正憲

CHECKED BY : 鄭榮謀

DESIGNED BY : 劉恒佑

APPROVED BY : 謝立庭

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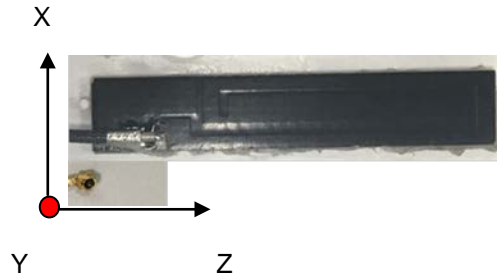
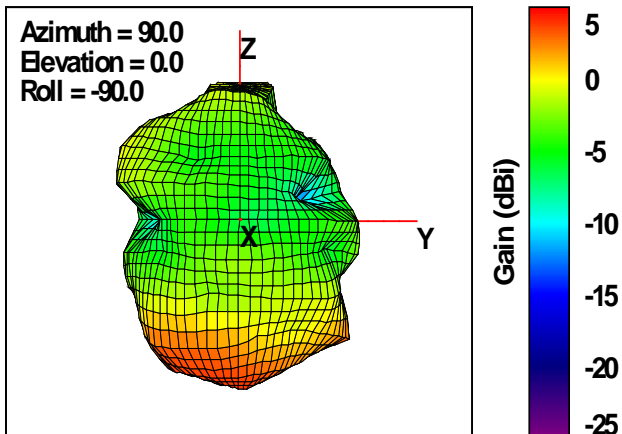
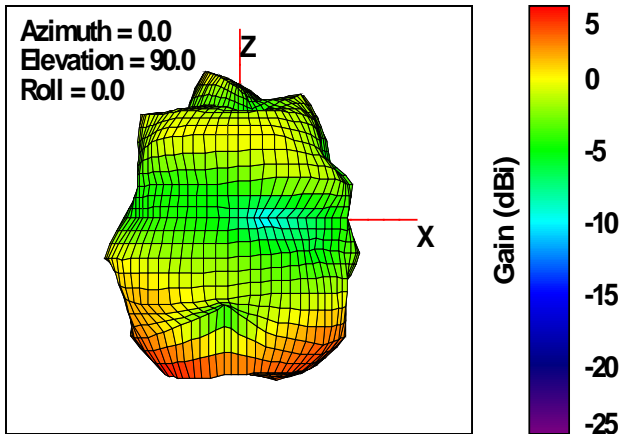
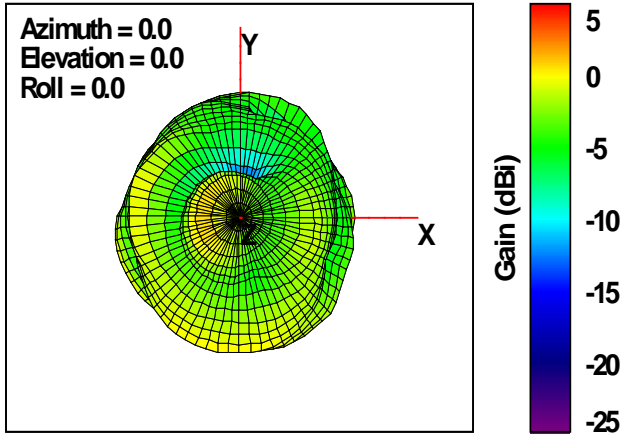
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4.2 2000-2230MHz Band



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

DRAWN BY : 涂正憲

CHECKED BY : 鄭榮謀

DESIGNED BY : 劉恒佑

APPROVED BY : 謝立庭

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5. Efficiency Table (Free Space)

5.1 903-957MHz

Frequency(MHz)	903	920	940	957
Efficiency(dB)	-3.8	-3.32	-3.28	-3.61
Efficiency(%)	41.69	46.56	46.99	43.55
Gain(dBi)	2.58	3.02	3.17	2.76

5.2 2000-2230

Frequency(MHz)	2000	2040	2080	2120	2160	2200
Efficiency(dB)	-3.76	-3.43	-3.22	-3.14	-3.35	-3.58
Efficiency(%)	42.07	45.39	47.64	48.53	46.24	43.85
Gain(dBi)	3.65	4.29	4.63	4.89	4.51	3.92

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

DRAWN BY : 涂正憲

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