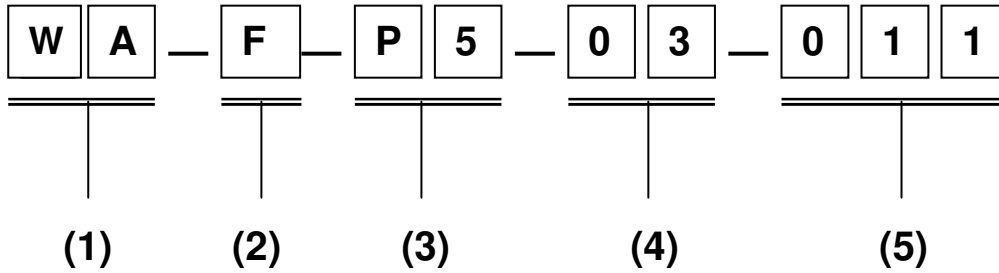


Embedded 3G Antenna for WA-F-P5-03-011

1. Explanation of part number :



- (1) Product Type : Wireless Antenna
- (2) Material : FPCB
- (3) Frequency/Band code : 850, 900, 1800, 1900, 2100 bands
- (4) Coaxial Cable Type : Gray coaxial cable
- (5) Suffix : 011

2. Electrical Specification :

Those specifications were specially defined for **Quanta** model **3G Antenna**, and all characteristics were measured under the model's handset testing jig.

2-1 Frequency Band:

Band	Frequency (MHz)
850	824~894
900	880~960
1800	1710~1880
1900	1850~1990
2100	1920~2170

2-2 Impedance

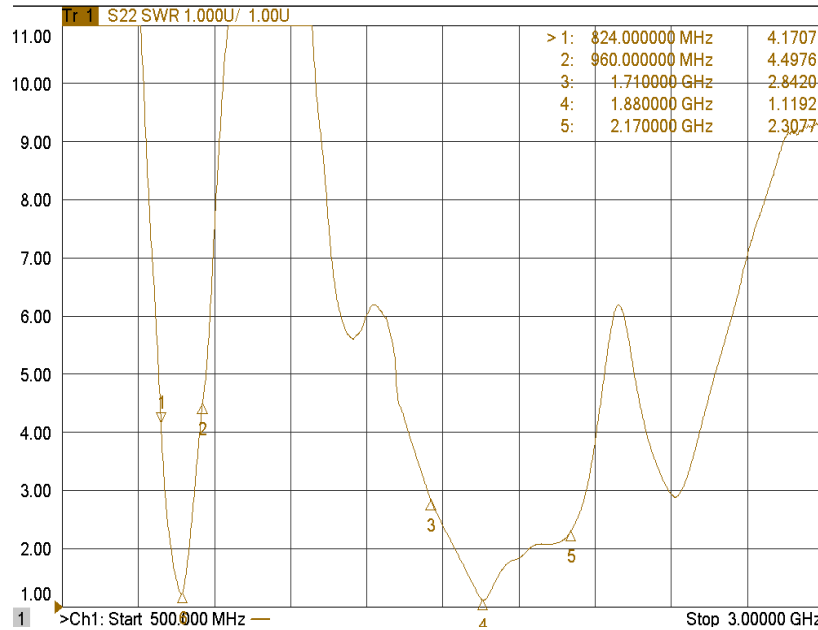
50 ohm nominal

2-3. Matching circuit:

None

UNLESS OTHER SPECIFIED TOLERANCES ON :			INPAQ TECHNOLOGY CO., LTD.	
X=±	X.X=±		X.XX=±	
ANGLES=±		HOLEDIA=±		
SCALE :	UNIT : mm			
DRAWN BY : 張嘉穗	CHECKED BY : 楊奇峰			
DESIGNED BY : 黃柏鈞	APPROVED BY : 陳智崑			
TITLE : Embedded 3G Antenna for WA-F-P5-03-011		DOCUMENT NO.	ENS000041610	SPEC REV.
				P0

2-4 VSWR :



Frequency(MHz)	824	960	1710	1880	2170
VSWR	4.17	4.49	2.84	1.11	2.30

2-5 Antenna Performance :

3D Gain Table:

Frequency (MHz)	Peak Gain (dBi)	Average Gain (dBi)	Efficiency (%)
Low Band			
824	-1.45	-5.64	27.26
840	-0.07	-5.22	30.03
860	1.57	-4.54	35.16
880	1.87	-4.02	39.60
894	1.55	-4.20	38.02
900	1.40	-4.43	36.08
920	0.59	-4.59	34.72
940	0.91	-4.60	34.65
960	-0.11	-5.38	28.99

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±
 ANGLES=± HOLEDIA=±



INPAQ TECHNOLOGY CO., LTD.

SCALE : UNIT : mm

DRAWN BY : 張嘉穗 CHECKED BY : 楊奇峰

DESIGNED BY : 黃柏鈞 APPROVED BY : 陳智崑

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TITLE : Embedded 3G Antenna for WA-F-P5-03-011

DOCUMENT NO.

ENS000041610

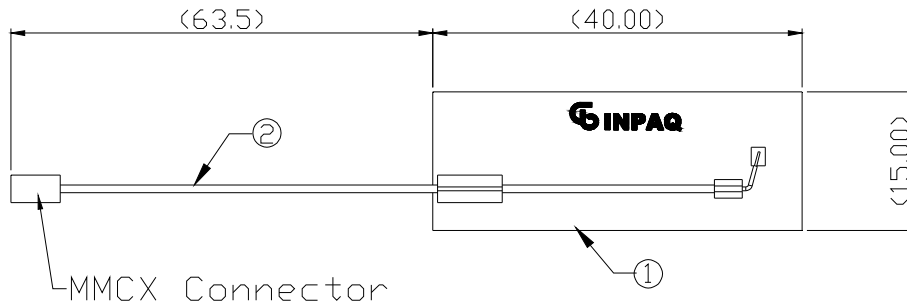
SPEC REV.
P0

Frequency (MHz)	Peak Gain (dBi)	Average Gain (dBi)	Efficiency (%)
High Band			
1710	-0.21	-4.68	34.04
1730	0.99	-3.87	41.03
1750	1.27	-3.61	43.57
1775	1.58	-3.25	47.29
1800	1.65	-2.97	50.45
1825	1.95	-2.69	53.77
1850	2.08	-2.74	53.24
1880	2.30	-2.77	52.86
1920	2.38	-2.84	52.00
1950	1.58	-2.94	50.78
1990	1.82	-2.91	51.18
2050	2.54	-2.82	52.29
2100	1.63	-3.24	47.43
2150	1.61	-2.88	51.49
2170	0.94	-4.05	39.37

3. Mechanical Specification:

3-1. Mechanical Configuration:

The appearance of the antenna is according to drawing Figure 3-1-1.



ITEM	DESCRIPTION	MATERIAL SPECIFICATION	QUANTITY	UNIT
1	FPCB	T=0.12mm, 40*15mm ²	1	PCS
2	RF connector and Cable	MMCX, phi 1.13mm, color Gray	1	PCS

Figure 3-1-1 The antenna drawing

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SCALE :	UNIT : mm		
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