核准	主 辦
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DVT 測試報告



6525A0041300

ANTENNA PLATE 21.7*9.5*7.2mm (A) LFP

日期: <u>2016/11/18</u> 版次: <u>1.00</u>

神準科技股份有限公司



Embedded Dual-Band Antenna

Ant_1/2:6525A0041300 ANTENNA PLATE 21.7*9.5*7.2mm (A) LFP



1. Summary :

Antenna No.	1 2				
Frequency (MHz)	2400 ~ 2500 / 5150 ~ 5850				
Peak Gain (dBi)	4.6 / 4.7	3.3 / 4.8			
Efficiency (%)	77.3 / 74.4	70.1 / 68.3			
Return loss(VSWR)	<2				
Isolation (dB)	<-20				
Dimension (mm)	21.7*7.2*7mm				
Cable Color	WhiteGray				
Cable Length(mm)	67	91			



Mechanical Specification:

2-1. Mechanical Configuration:

The appearance of the antenna (6525A0041300) is according to the following drawing.





2. Electrical Specification :

Those specifications were specially defined for A40 model, and all characteristics were measured under the model's handset testing jig.

3-1. Frequency Band:

Frequency Band	MHz			
WLAN	2400 ~ 2500	5150 ~ 5850		

3-2. Impedance

50 ohm nominal

3-3. Matching circuit:

None

3-4. VSWR & Isolaton :

Ant_1:



Frequency (MHz)	2400	2450	2500	5150	5500	5850
VSWR	1.2	1.1	1.2	1.2	1.2	1.1









Frequency (MHz)	2400	2450	2500	5150	5500	5850
VSWR	1.9	1.6	1.5	1.4	1.2	1.3

Isolation :

Ant_1 to Ant_2 :





3-5. Gain and Radiation Pattern

3-5.1 Measure method

- 1. Using a low loss coaxial cable to link a standard handset jig
- 2. Fixed this handset jig on chamber's rotator plane
- 3. Linking jig into network analyzer port and using a probing horn antenna to collect data.
- 4. Using another standard gain horn antenna to calibrated those data

3-5.2 Chamber definition



- 1. An anechoic chamber (8m x4m x4m) which satisfied far-field condition was applied to avoid multi-path effect
- 2. The quite zone region is 40cm x40cm x40cm at the center of rotator
- 3. The distance between DUT and standard antenna is 5 m
- 4. Standard gain horn antenna (700MHz ~6GHz)



3-5.3 Gain data and radiation pattern

Antenna gain is marked [dBi] and is based on STANDARD HORN antenna. The data shows Peak-Gain and Average-Gain.

Ant_1 : 2.4GHz









Ant_2 : 2.4GHz



Ant_2 : 5GHz





Change history

Change history					
Date	Subject/Comment	Old	New		
2016/11/18	Initial Release	N/A	1.00		