核准	主辨
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電氣規格書

機種: AP3000X

5718A0694300 ANT AP3000 BLE MET 33.5*5.3*9.9_1.37LL 167 BLUE ASSEM

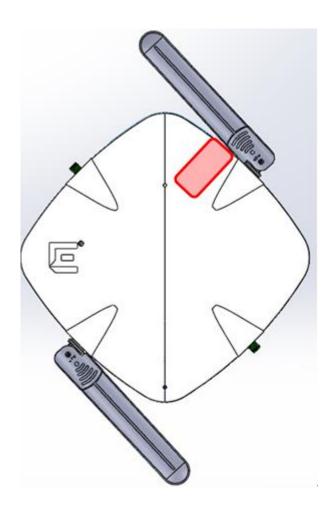
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Indoor Single-Band Antenna

5718A0694300 ANT AP3000 BLE MET 33.5*5.3*9.9_1.37LL 167 BLUE ASSEM



1. Summary:

Ant No.	Operating Band	Gain (dBi)	Efficiency (%)	Ant Type	Material	Feeding
Ant5 BLE	2400MHz ~ 2500 MHz	4.02	60.68	PIFA	Metal	Cable



2. Mechanical Specification:

2-1. Mechanical Configuration:

The appearance of the Ant1 is according to drawing Figure 2-1.

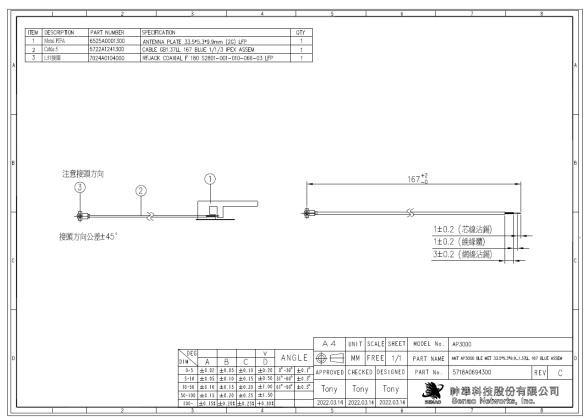


Figure 2-1 The antenna drawing

3. Electrical Specification:

Those specifications were specially defined for AP3000X model, and all characteristics were measured under the model's handset testing jig.

3-1. Frequency Band:

Frequency Band	MHz
BLE	2400~2500

3-2. Impedance

50 ohm nominal

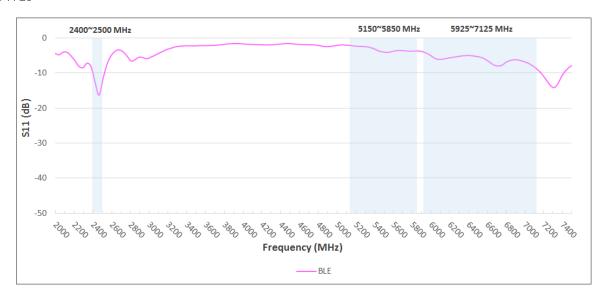
3-3. Matching circuit:

None



3-4. VSWR & Isolation:

VSWR



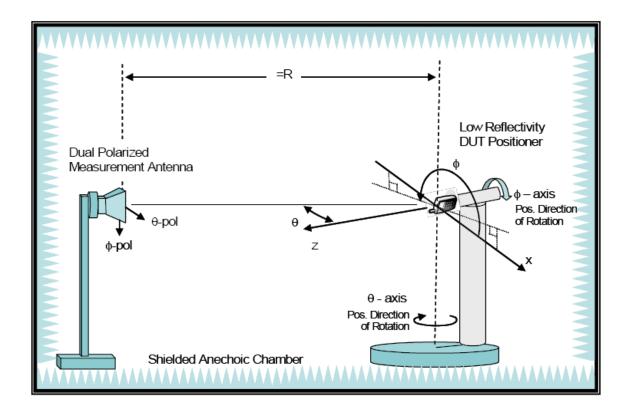
3-5. Gain and Radiation Pattern

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

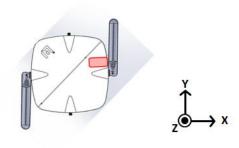


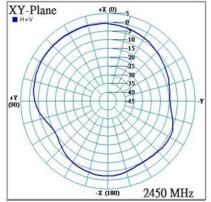
- 1. An anechoic chamber (8m x4m x4m) which satisfied far-field condition was applied to avoid multi-path effect
- 2. The quite zone region is 40cm x40cm x40cm at the center of rotator
- 3. The distance between DUT and standard antenna is 5 m
- 4. Standard gain horn antenna (700MHz ~6GHz)

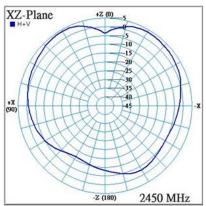


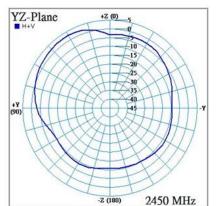
3-5.3 Gain data and radiation pattern

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









Antenna efficiency and gain

BLE Antenna Performance			
From (DALL-)	ANT 5		
Freq. (MHz)	Efficiency (%)	Peak Gain (dBi)	
2400	59.95	4.02	
2450	60.68	3.98	
2500	57.52	2.94	



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Change history

Change history					
Date	Subject/Comment	Old	New		
2022/05/23	Initial Release	N/A	1.00		