

ACA-2012-A1-CC-S Specification

1. APPLICATION:

WLAN, 802.11b/g, Bluetooth, etc...

2. Explanation of part number :

$\frac{AC}{(1)}$ $\frac{A}{(2)}$ - $\frac{2012}{(3)}$ - $\frac{A1}{(4)}$ - $\frac{CC}{(5)}$ - $\frac{S}{(6)}$ $\bar{(7)}$

- (1) Product Type : Chip Antenna
- (2) Center Frequency/Band Code : A—2442MHz group
- (3) Size Code: 2.0mm(Length) x 1.2mm(Width)
- (4) Design Revision Code: Rev.1
- (5) CC= Coupling Ceramics Type
- (6) Special Code: S=RoHS Compliant
- (7) Suffix For Special Requirements

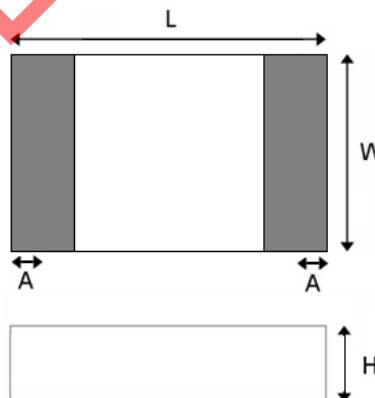
3. Electrical Specification :

ITEM	SPECIFICATION
Frequency Band	2400MHz~2483MHz
VSWR	Less than 3
Polarization	Linear
*Peak Gain	1.72 dBi Typ.
*Peak Efficiency	72.3% Typ.
Impedance	50Ω Typ.

* Test condition: Test board size 110*55 mm

Matching circuit: Pi matching circuit will be required

4. Physical Dimension : (Unit:mm)



Chip Antenna	L	W	H	A
ACA2012	2.0±0.3	1.2±0.3	0.55±0.2	0.4±0.25

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±
 ANGLES=± HOLEDIA=±



INPAQ TECHNOLOGY CO., LTD.

SCALE : ----- UNIT : mm

DRAWN BY : 楊奇峰 CHECKED BY : 鄭大福
 DESIGNED BY : 謝立庭 APPROVED BY : 蘇志銘

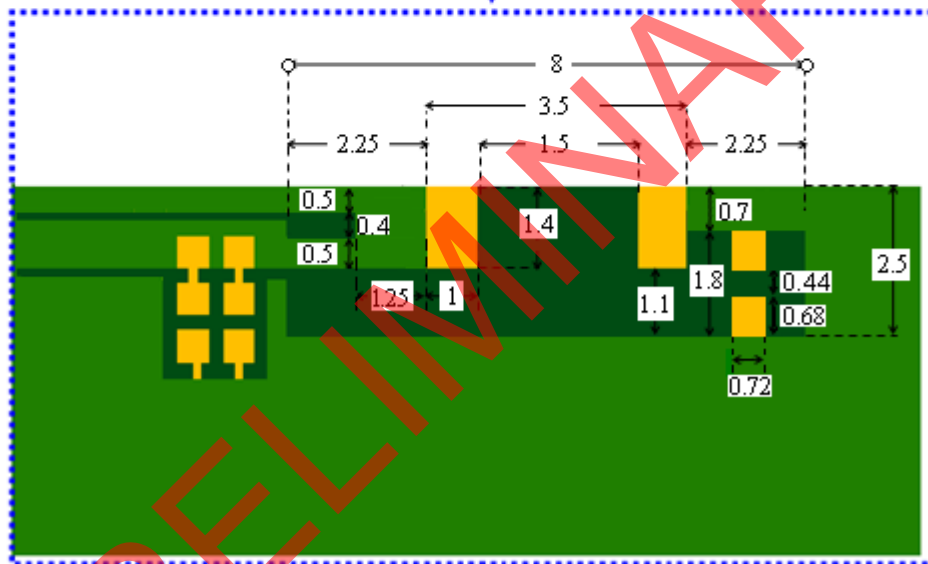
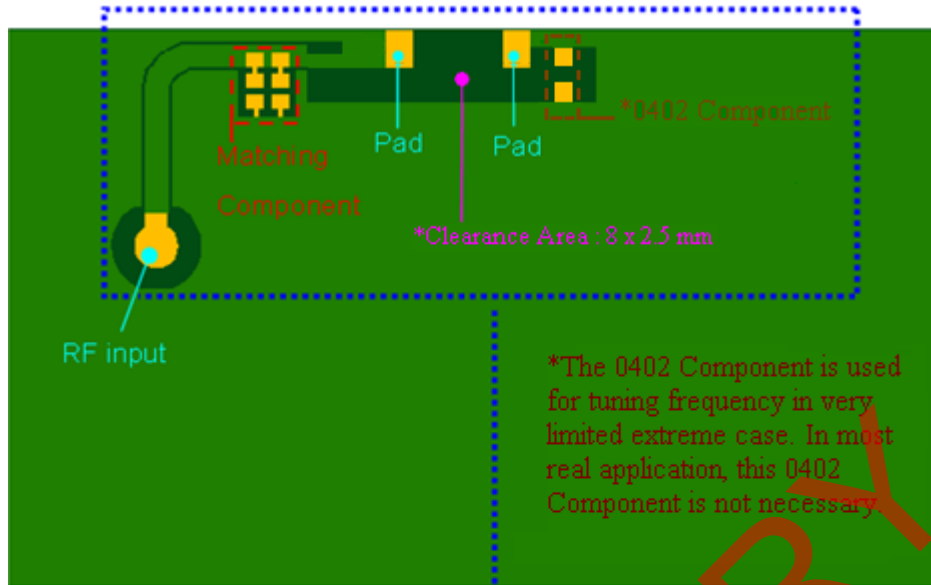
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DOCUMENT NO. ENS000030640

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5. Recommend PCB Layout : (Unit:mm)

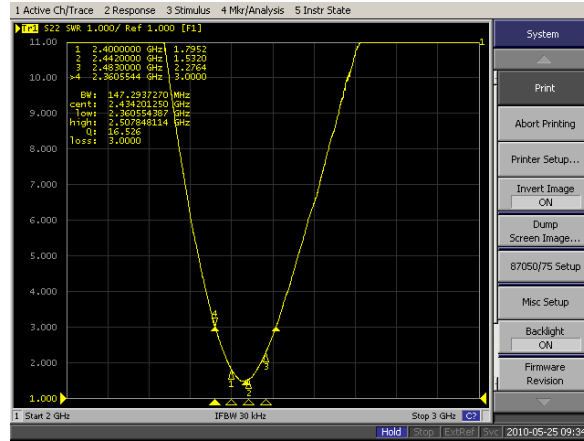


*Clearance 8mm x 2.5mm : All metallization should be removed from all PCB layers.

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6. Electrical Characteristics :

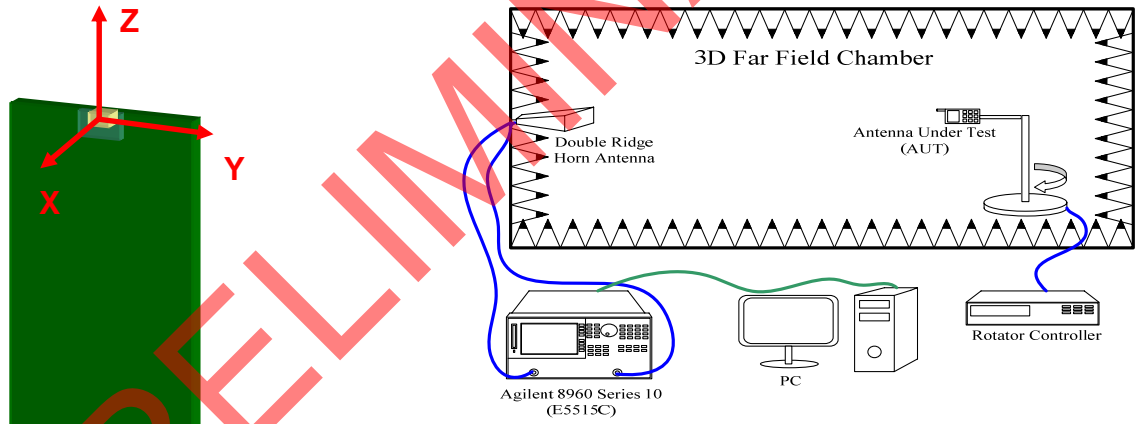
VSWR



Mark	Frequency	VSWR
1	2400 MHz	1.80
2	2442 MHz	1.53
3	2483 MHz	2.28

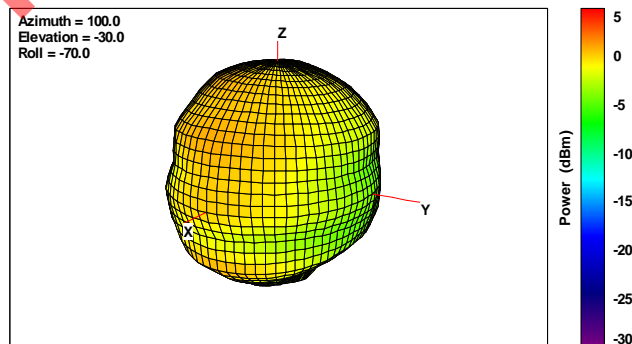
Radiation Pattern

The Gain pattern is measured in INPAQ's FAR-field chamber. DUT is placed on the table of rotator, a standard horn antenna and Vector Network Analyzer is used to collect data.



3D Chamber Definition

© 3D Gain Pattern (2442 MHz)



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 ANGLES=± HOLEDIA=±



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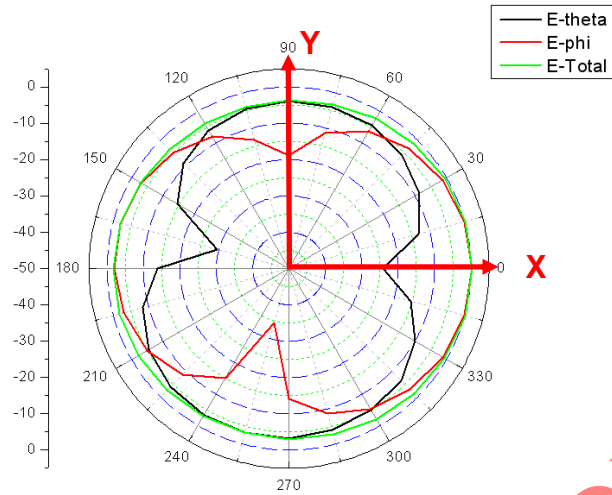
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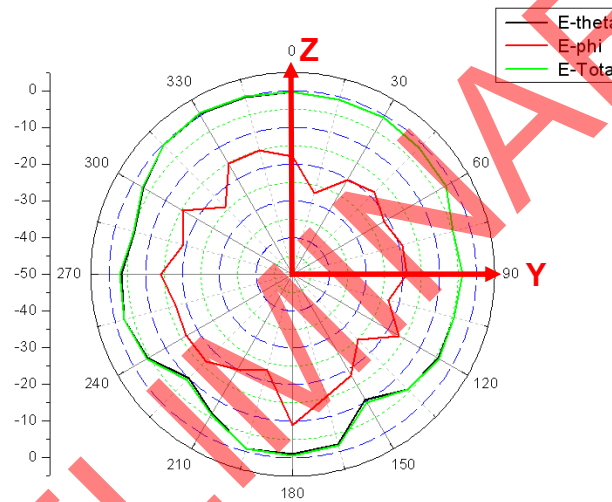
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© 2D Gain Pattern (2442 MHz)

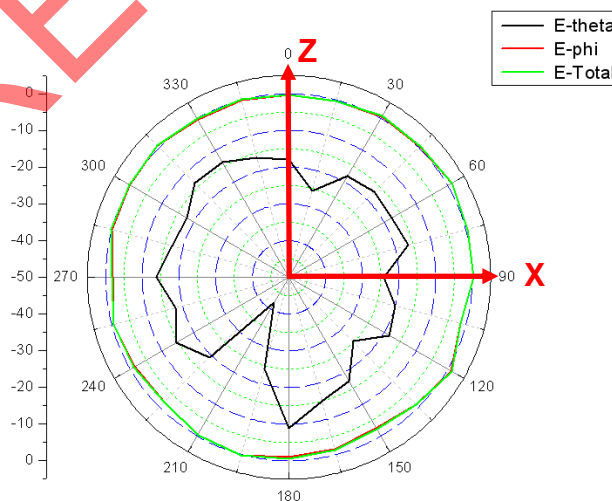
X-Y Plane



Y-Z Plane



X-Z Plane



PRELIMINARY

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X=± X.X=± X.XX=±
 ANGLES=± HOLEDIA=±



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