

ACM3-5036-A1-CC-S Specification

1. Features and Application

This product is for 2.4/5 GHz Dual Band WiFi, 802.11 a/b/g/n, Zigbee, Bluetooth,...

2. Explanation of Part Number

AC M3 - 5036 - A1 - CC - S
(1) (2) (3) (4) (5) (6) (7)

- (1) Product Type: ceramic antenna
- (2) Center Frequency/Band Code: 2.4/5 GHz Dual Band
- (3) Size Code: 5.0*3.6 mm (Length*Width)
- (4) Design Revision Code: Rev. 1
- (5) Antenna Type: Coupling Ceramics
- (6) Special Code: RoHS Compliant
- (7) Suffix For Special Requirements

3. Electrical Specification

Item	Specification	
Frequency Band	2400 ~ 2500 MHz	5000 ~ 6000 MHz
Polarization	Linear	
Impedance	50 ohm Typ.	
VSWR	Less than 2.0	Less than 2.0
*Peak Gain	3.0 dBi Typ.	3.3 dBi Typ.
*Peak Efficiency	73.4% Typ.	80.2% Typ.

* Test condition: Test board size 80*40 mm
Matching circuit may be required

Name: TOPICON HK LIMITED

Address: Room 2314-2316, Tower C, Huangdu Plaza, Yitian Road, Futian District, Shenzhen, China

UNLESS OTHER SPECIFIED TOLERANCES ON :

X=± X.X=± X.XX=±
ANGLES=± HOLEDIA=±



INPAQ TECHNOLOGY CO., LTD.

SCALE : -----

UNIT : mm

DRAWN BY : 宇恩佐 Enzo

CHECKED BY : 趙彥年 Danny

DESIGNED BY : 黃啓傑 Tommy

APPROVED BY : 蘇志銘 Jerry

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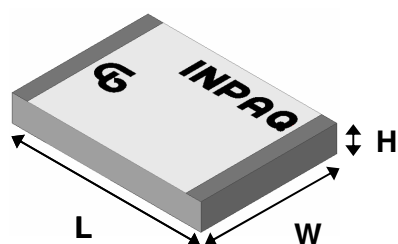
TITLE : ACM3-5036-A1-CC-S Specification

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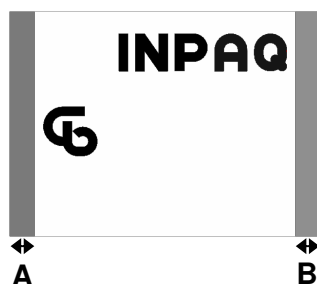
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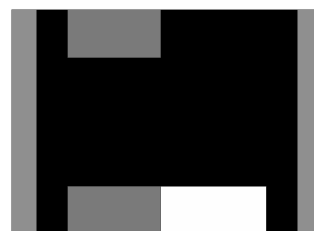
4. Physical Dimension



Top view



Bottom view



Marking is Black

L	5.20 ± 0.30
W	3.70 ± 0.30
H	0.70 ± 0.15
A	0.45 ± 0.25
B	0.45 ± 0.25
L1	1.10 ± 0.20
W1	0.55 ± 0.20

(Unit: mm)

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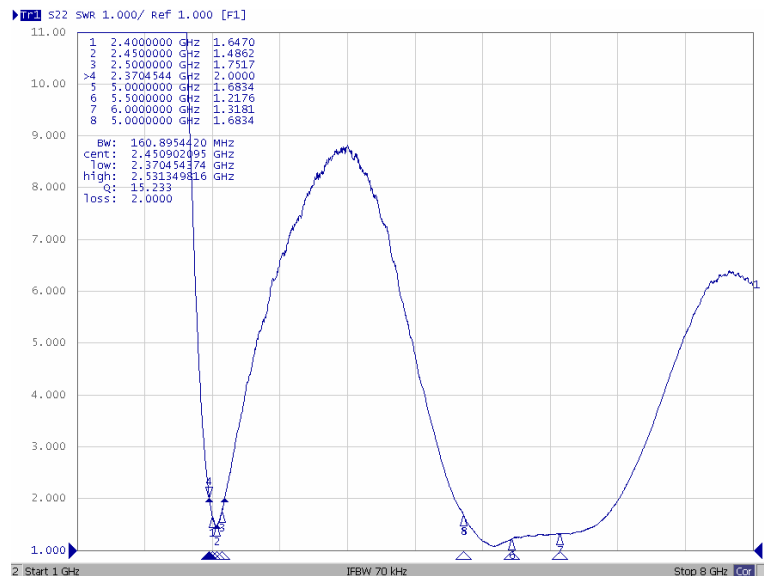
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6.Electrical Characteristics

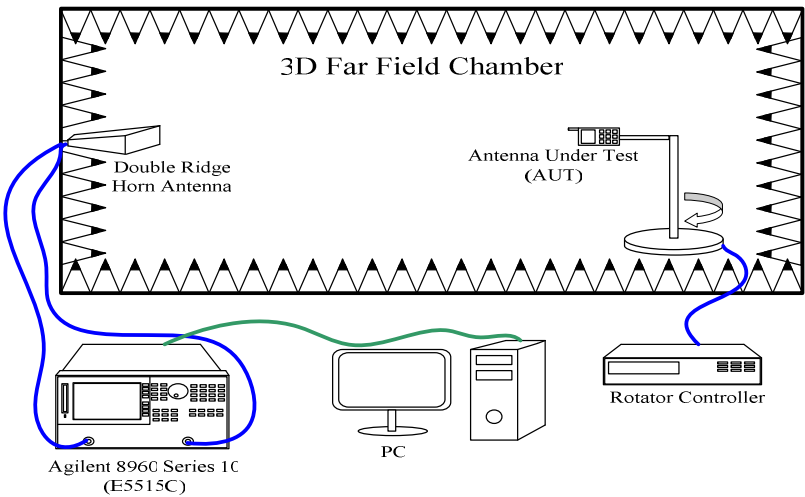
VSWR



Frequency (MHz)	VSWR
2400	1.7
2450	1.5
2500	1.7
5000	1.7
5500	1.2
6000	1.3

Radiation Pattern

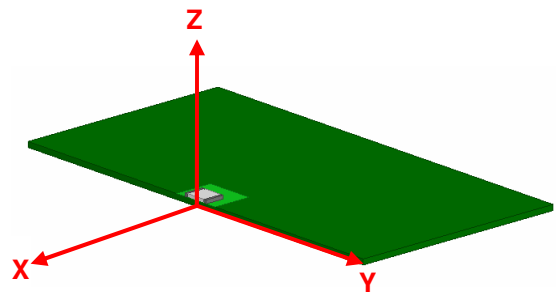
The Gain pattern is measured in INPAQ’s FAR-field chamber. DUT is placed on the table of rotator, a standard horn antenna and Vector Network Analyzer is used to collect data.



3D Chamber Definition

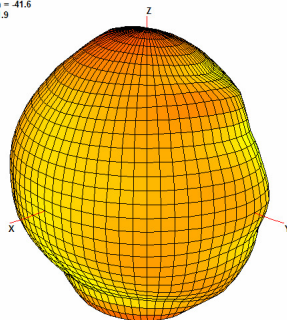
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3D Gain Pattern

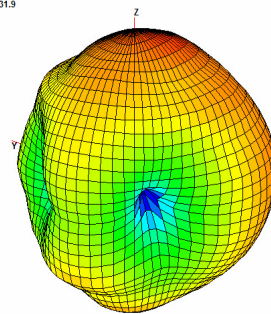


2450 MHz

Azimuth = 109.4
Elevation = -41.6
Roll = -61.9

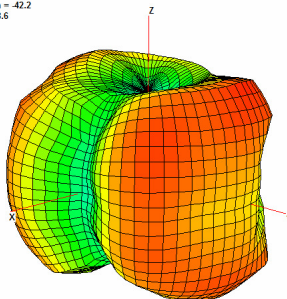


Azimuth = -74.4
Elevation = 31.9
Roll = 61.8

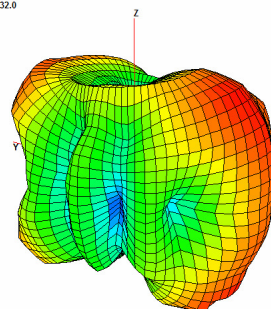


5500 MHz

Azimuth = 105.4
Elevation = -42.2
Roll = -68.6



Azimuth = -74.6
Elevation = 32.0
Roll = 62.0



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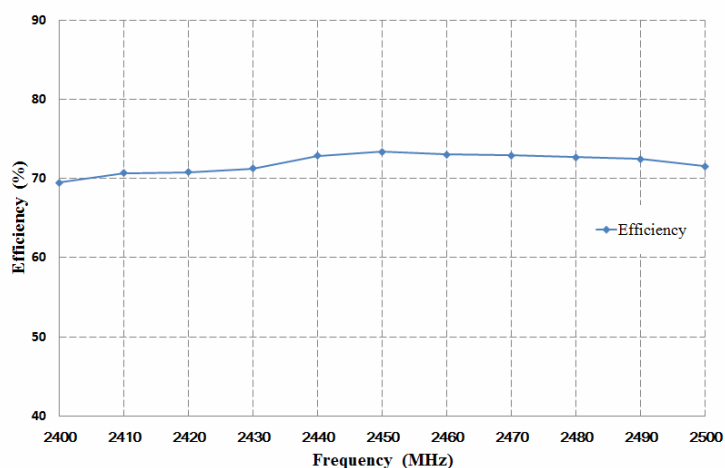
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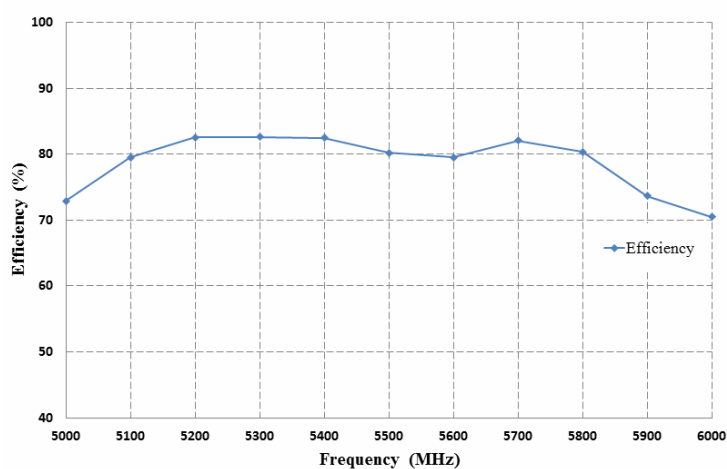
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Efficiency



Frequency (MHz)	Efficiency (%)
2400	69.5
2450	73.4
2500	71.5
5000	72.9
5500	80.2
6000	70.5



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