

# WAG-H-LTE4-00-001

## 1. Explanation of Part Number

WAG    -H    - LTE4    - 00    - 001  
 (1)        (2)        (3)        (4)        (5)

- (1) Product type : wireless antenna
  - (2) Material: ceramic
  - (3) Frequency : 780~960MHz、1710~2170MHz、2500~2690MHz
  - (4) Connector Types :00
  - (5) Suffix for special requirements : 001
- ※ RoHS Compliant

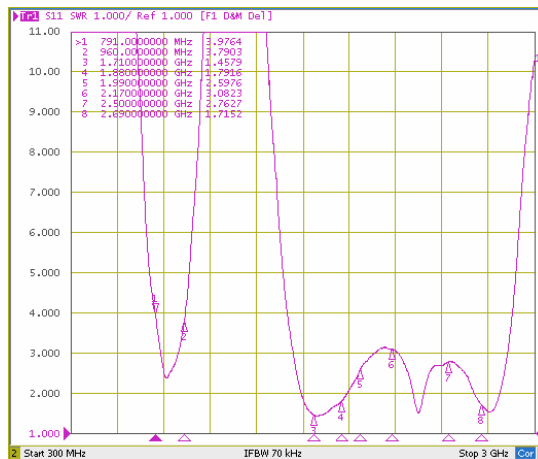
## 2. Electrical properties:

Electrical Specification*	
Frequency	780~960MHz、1710~2170MHz、2500~2690MHz
VSWR	4max (depends on the INPAQ evaluation board)
Polarization	Linear
Impedance with matching	50Ω
Antenna type	SMD
Operating temperature	-40~85℃
Dimension	40*5*6mm

\* Electrical characteristic depends on INPAQ evaluation board with matching circuit.

\* The dimension of evaluation board is 120\*45 mm.

### 2-1 VSWR



UNLESS OTHER SPECIFIED TOLERANCES ON :

X=N/R      X.X=N/R      X.XX =N/R  
 ANGLES=N/R      HOLEDIA=N/R



**INPAQ TECHNOLOGY CO., LTD.**

SCALE : N/R

UNIT : mm

DRAWN BY : 林娟

CHECKED BY : 李志强

DESIGNED BY : 唐龙

APPROVED BY : 杨开月

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TITLE:WAG-H-LTE4-00-001

DOCUMENT NO.

SPEC REV.  
P0

## 2-2 Efficiency and Radiation Patten

**Instruments:** Anechoic Chamber, Network Analyzer, Quarter Ridge Horn Antenna.

### Chamber description:

1. The anechoic chamber satisfied a far-field measurement system condition with size of 8m\*4m\*4m.
2. The Probing antenna is a Quarter Ridge Horn Antenna which is placed in the one side of chamber And the AUT is placed in the other side of the chamber.
3. The antenna under test is fixed on a step rotator. We can control the rotating angle for accurate or rough measurement.

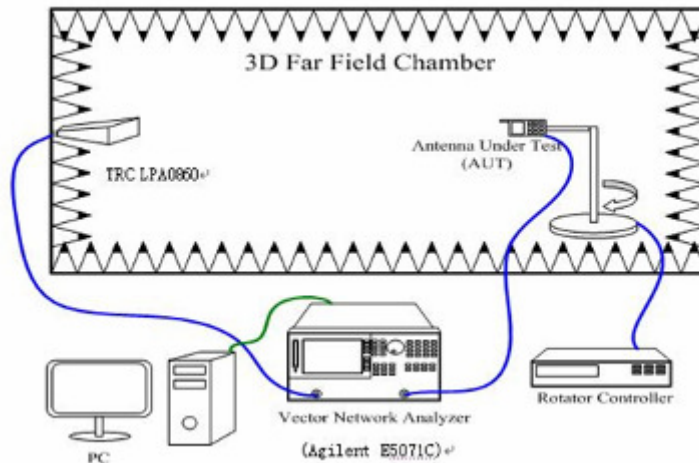


Fig. 1 shows the interior components of Anechoic chamber

### 2-2-1 Efficiency & Gain (dBi)

Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
790	0.96	66.57
824	1.93	79.50
850	1.62	78.53
880	0.89	63.63
960	0.53	42.73
1710	3.36	66.70
1830	3.42	66.86
1910	3.38	64.94
1990	3.14	61.54
2170	2.89	56.32
2500	3.08	44.29
2570	3.04	57.06
2690	3.30	48.54

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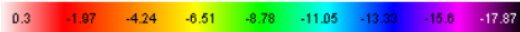
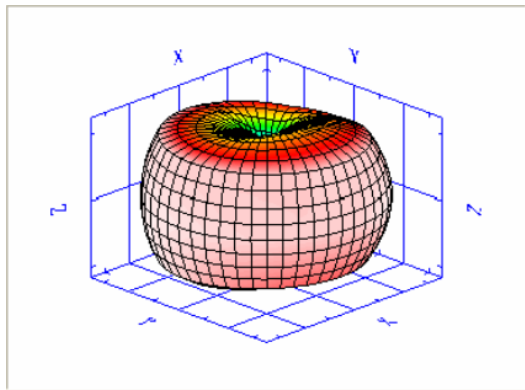
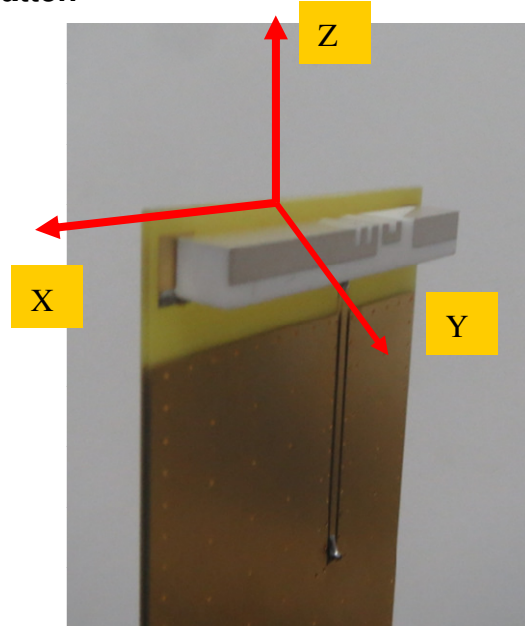
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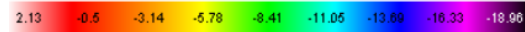
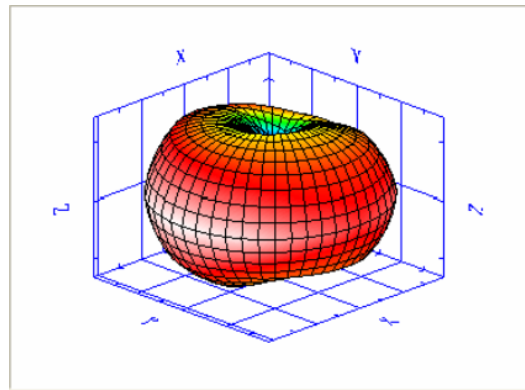
SPEC REV.

P0

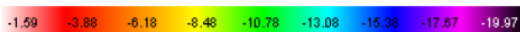
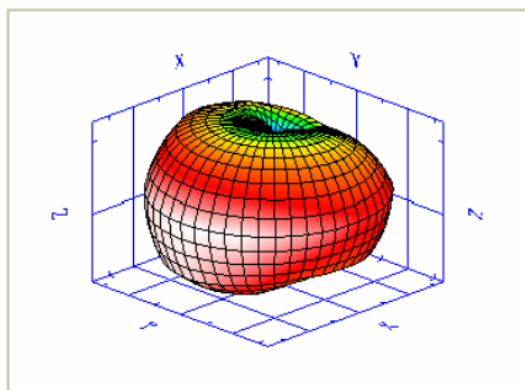
## 2-2-2 3D Radiation Patten



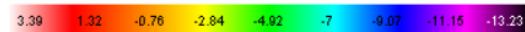
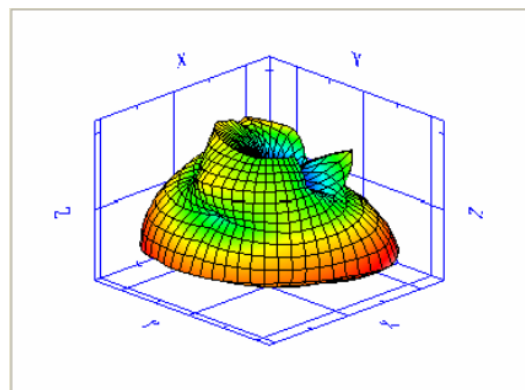
791MHz



880MHz



960MHz



1710MHz

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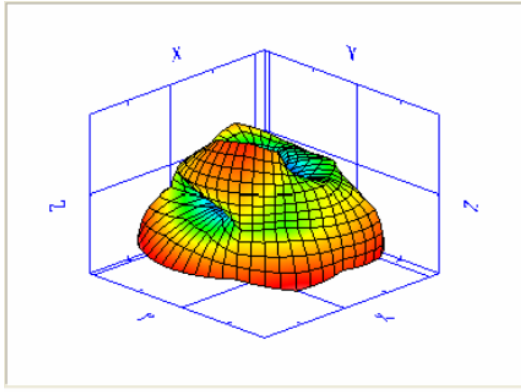
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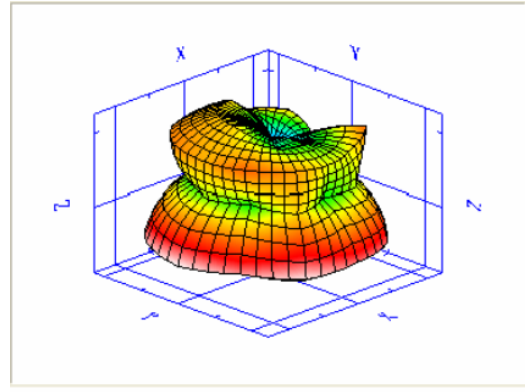
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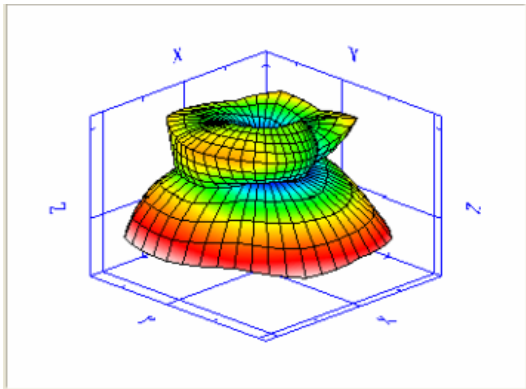
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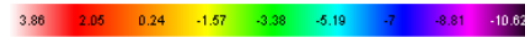
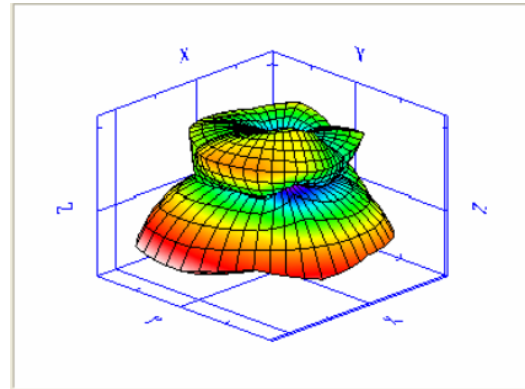
1880MHz



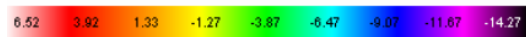
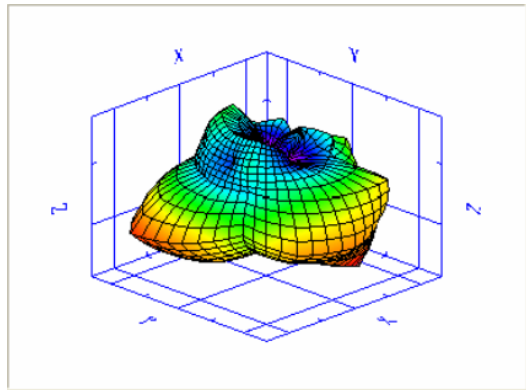
1990MHz



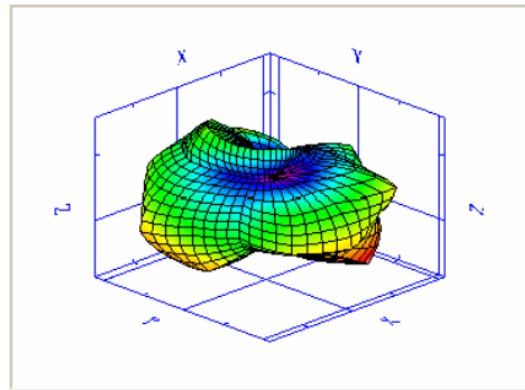
2110MHz



2170MHz



2500MHz



2690MHz

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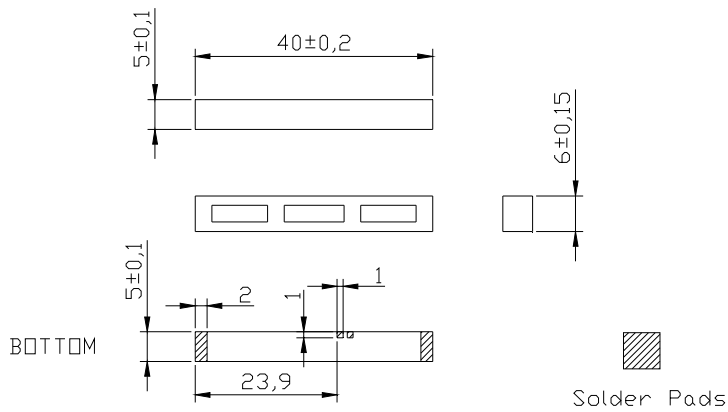
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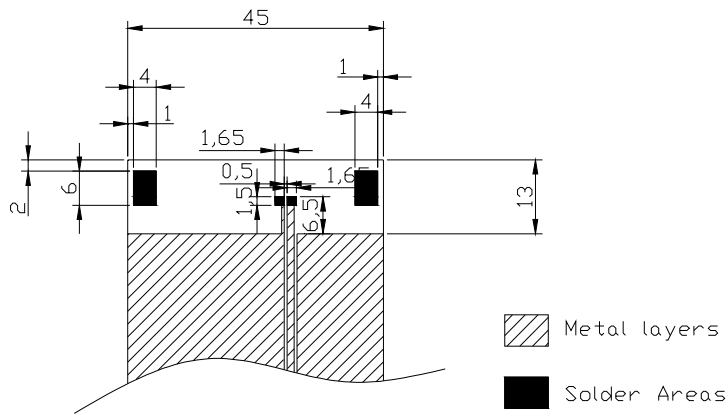
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### 3. Antenna dimensions(unit:mm)

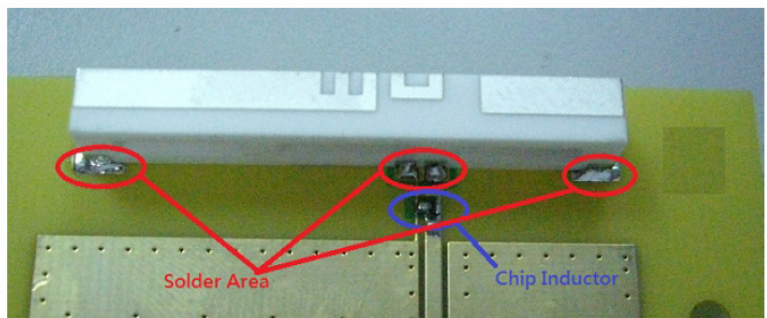
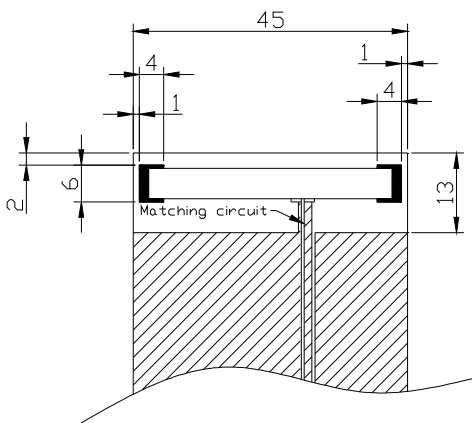
#### 3-1.Shape and dimension



#### 3-2. Layout Dimension



#### 3-3. Matching Circuit



Circuit Symbol	Size	Description
L1	0402	8.2nH Inductor (MLK1005S8N2D)

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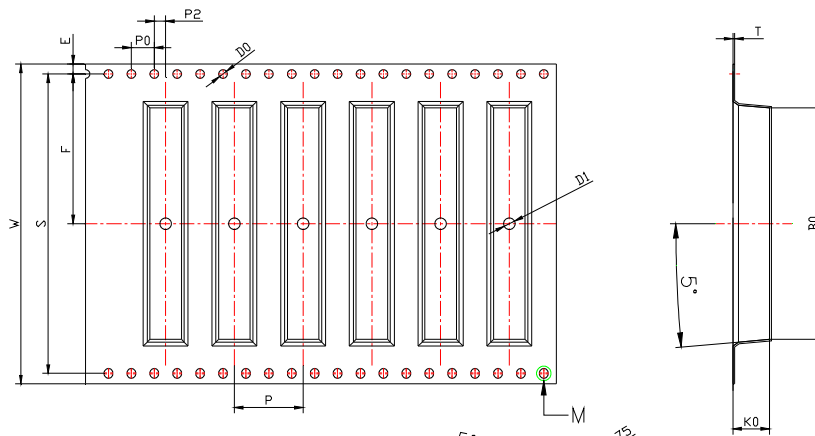
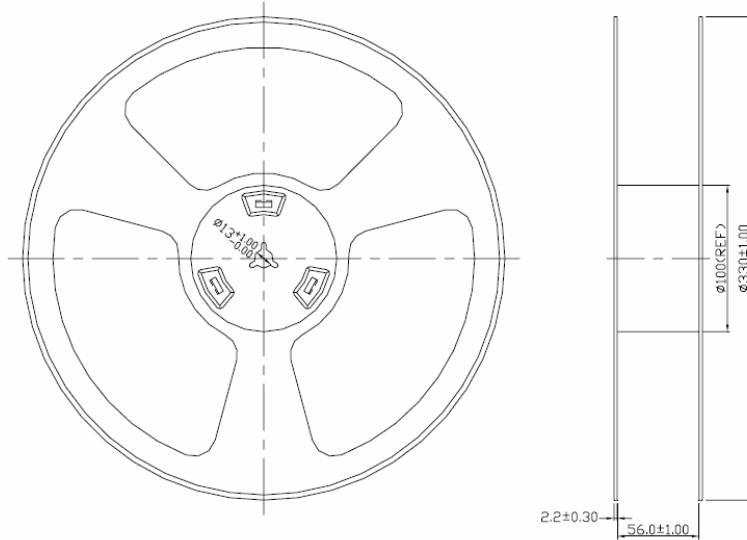
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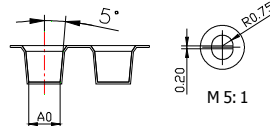
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#### 4. Packing :



1. 750 pcs / Reel
2. Black Polystyrene.



ITEM	DIMENSION
W	56.00
P	12.00
S	52.40
E	1.75
F	26.20
P2	2.00
D0	1.50
D1	2.00
P0	4.00
10P0	40.00

ITEM	DIMENSION
A0	5.50
A1	---
B0	40.50
B1	---
K0	6.40
K1	---
t	0.30

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