



|            |                |
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| Model           | Type            | Rev. | KEITECH | IR |
| Doorbell Thread | Int PCB Antenna |      | LGIT    | A  |

## For specification certification Sheet

Customer : LGIT

Company : KEITECH

Product Name : Int PCB Antenna

Model : Doorbell Thread

Customer P/N : 2ANE00030A

Maker Code : KT-WIFI-KM2605

| Department | Investigation                                                                       | Verification | Approval                                                                              |
|------------|-------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------|
| Circuit    |  |              |  |
| Machine    |                                                                                     |              |  |
| Safety     |                                                                                     |              |  |



**KEITECH Co., LTD**

1312ho 80,Jomaru-ro 385beon-gil

Bucheon-si,Gyeonggi-do, Korea

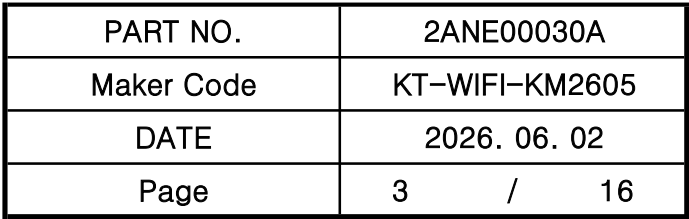
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## 1. Revision History of Product Specification

## 1.1 History List of Approval Sheet

[illegible]

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## 2. Circuit Specification

### 2.1 Test Setting

#### 2.1.1 Test Environment (Condition/Method)

##### ① VSWR

Step 1. Connect ANT port with cable included adaptor to port1 of Network analyzer.

Step 2. Point out markers on network analyzer display at target frequencies.

Step 3. Inspect VSWR

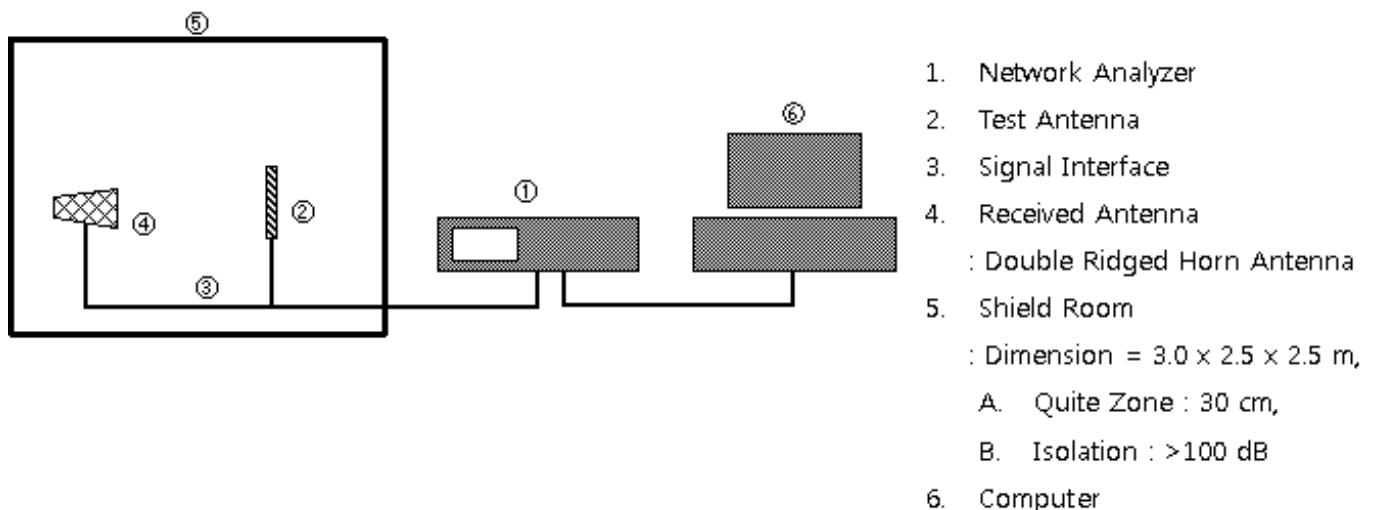
##### ② Radiation Pattern and Gain

Step 1. Calibrate chamber system for gain measurement using horn antenna.

At the same time set up software program for chamber system control.

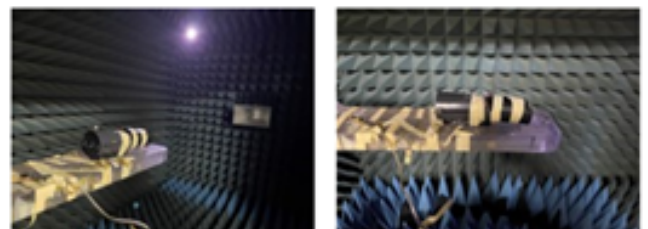
Step 2. Change over from a horn antenna to measuring antenna on target positioner

Step 3. Start a software program for chamber system control & measuring.



●Antenna Gain Test Equipment  
Measurement system  
Changwoo System  
Calibration date: October 21. 2024

Network Analyzer  
Agilent 5071B  
Calibration date: May 13, 2024





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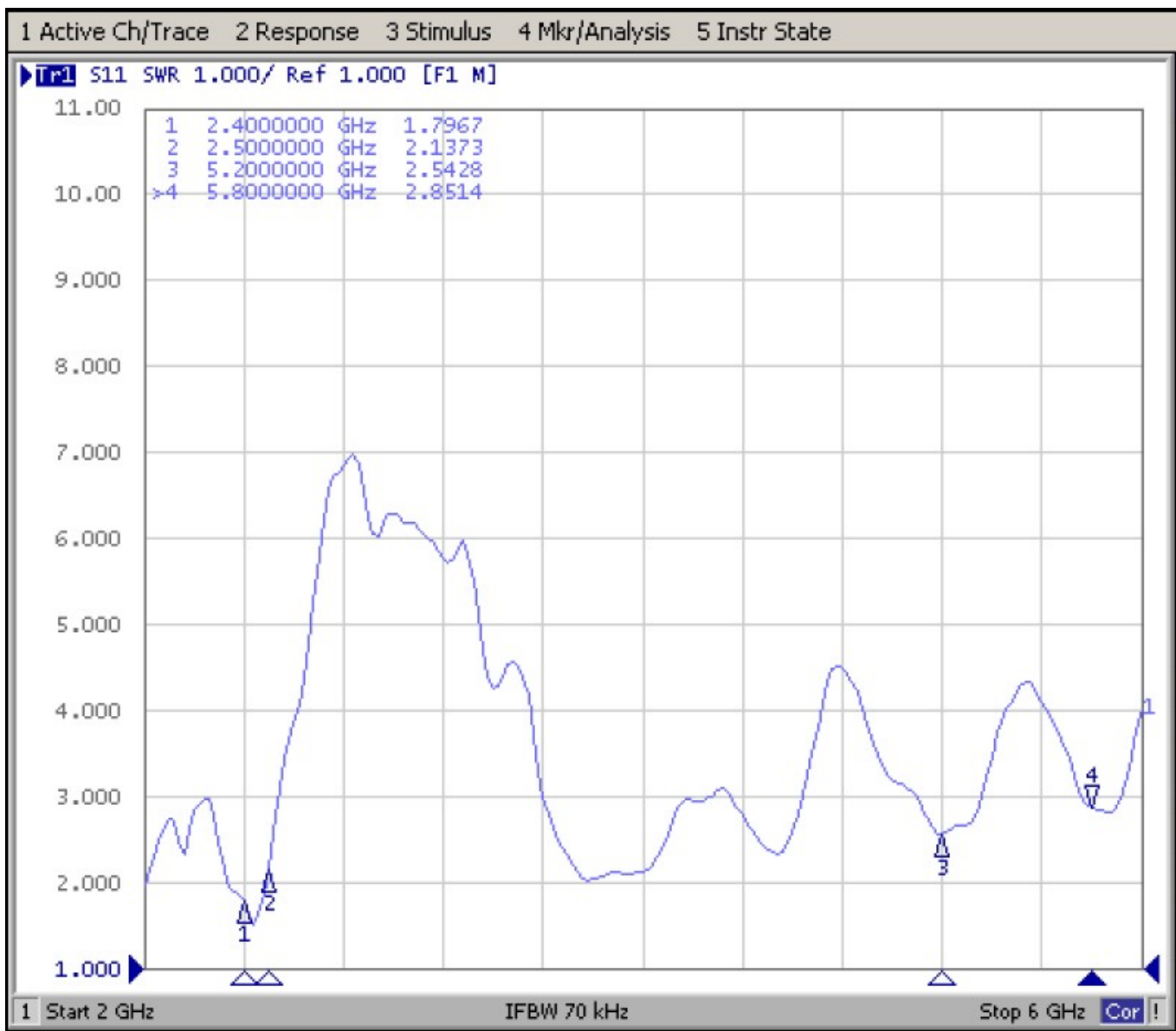
## 2.2 Electrical Specification

| Doorbell Thread |                  |            |  |  |
|-----------------|------------------|------------|--|--|
| Frequency       | 2400MHz          | 2500MHz    |  |  |
| VSWR            | $\leq 2.5$       | $\leq 2.5$ |  |  |
| Peak Gain (dBi) | 1.0              | 1.0        |  |  |
| Directivity     | Omni-directional |            |  |  |
| Polarization    | Linear           |            |  |  |

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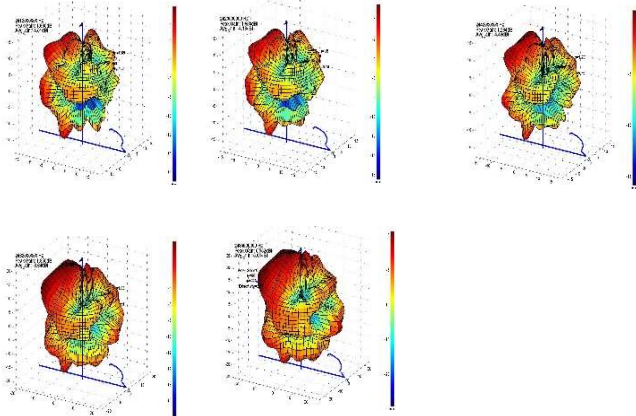
### 2.2.1 Electrical Spec. of Piece (With VSWR)



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### 2.2.2 Passive Gain & 3D Pattern

| 2GHz_3D Pattern                                                                    | 5GHz_3D Pattern |
|------------------------------------------------------------------------------------|-----------------|
|  |                 |

|              |
|--------------|
| Passive Gain |
|--------------|

| Frequency        | Efficiency | Average Gain |          |          | Max Gain |         |         |
|------------------|------------|--------------|----------|----------|----------|---------|---------|
|                  |            | Ver          | Hor      | Total    | Ver      | Hor     | Total   |
| 2,400,000,000 Hz | 17.5 %     | -10.3 dBi    | -8.0 dBi | -7.7 dBi | -1.1 dBi | 0.5 dBi | 0.5 dBi |
| 2,420,000,000 Hz | 17.9 %     | -9.9 dBi     | -7.9 dBi | -7.3 dBi | -0.4 dBi | 0.7 dBi | 0.9 dBi |
| 2,442,000,000 Hz | 18.1 %     | -9.6 dBi     | -7.1 dBi | -7.2 dBi | -0.2 dBi | 0.8 dBi | 1.0 dBi |
| 2,462,000,000 Hz | 17.7 %     | -10.1 dBi    | -7.8 dBi | -7.5 dBi | -0.5 dBi | 0.6 dBi | 0.7 dBi |
| 2,500,000,000 Hz | 17.4 %     | -10.4 dBi    | -8.2 dBi | -7.8 dBi | -0.2 dBi | 0.4 dBi | 0.4 dBi |



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3. Mechanical Specification

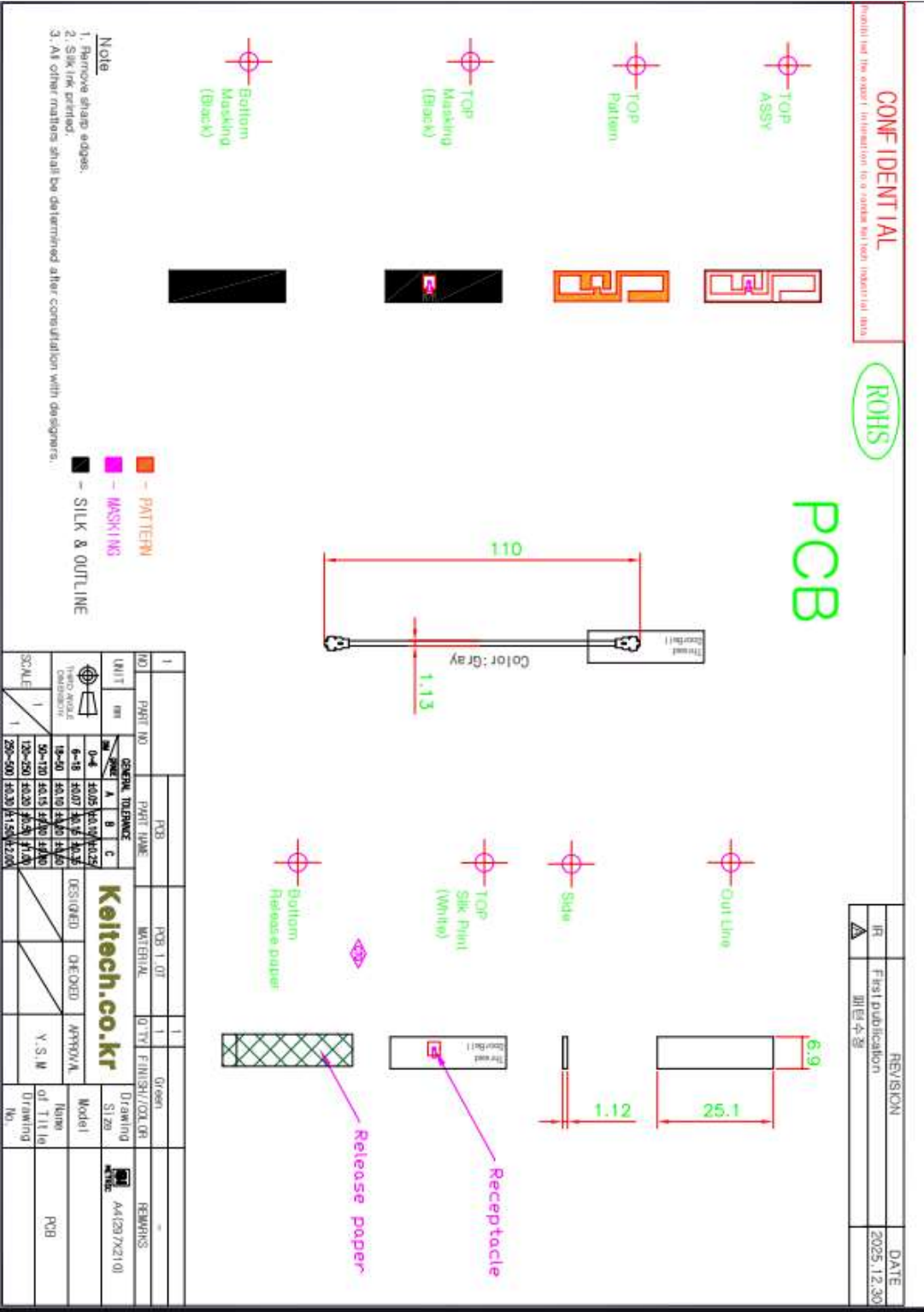
3.1 Material Certificate

|          |           |                 |                                 |                                        |                        |                                      |
|----------|-----------|-----------------|---------------------------------|----------------------------------------|------------------------|--------------------------------------|
| Model    |           | Doorbell Thread |                                 |                                        |                        |                                      |
| Ant Type |           | Int PCB Antenna |                                 |                                        |                        |                                      |
| No       | Part Name | Part No.        | Raw Material<br>(Plating Spec.) | Raw Material<br>Company                | Manufacture<br>Company | Processing Company<br>Representative |
| 1        | PCB       | —               | PCB, 1.0T<br>/ Black            | INTERNATION<br>AL LAMINATE<br>MATERIAL | Gaoke Ant<br>Co.,Ltd   | Chen Biyun<br>+86-13570069921        |
| 2        | Cable     | —               | FEP/Copper<br>Φ1.13*110mm/Gray  | Yuanda                                 |                        |                                      |
|          |           |                 |                                 |                                        |                        |                                      |
|          |           |                 |                                 |                                        |                        |                                      |
|          |           |                 |                                 |                                        |                        |                                      |
|          |           |                 |                                 |                                        |                        |                                      |
|          |           |                 |                                 |                                        |                        |                                      |
|          |           |                 |                                 |                                        |                        |                                      |

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3.2 Assy Drawing



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### 3.3 Packing Spec.

**CONFIDENTIAL**

Prohibit the export / information to a third parties industrial data.

④ IN POLYPACK

③ OUT POLYPACK

**ROHS**

**Handling Precautions**

1. Box is loading less than 4.

**Storage Conditions**

1. Box on a Pallet deposit.

2. Temperature / humidity control  
→ At room temperature: 10 ~ 30 °C  
→ Humidity: 60% or less

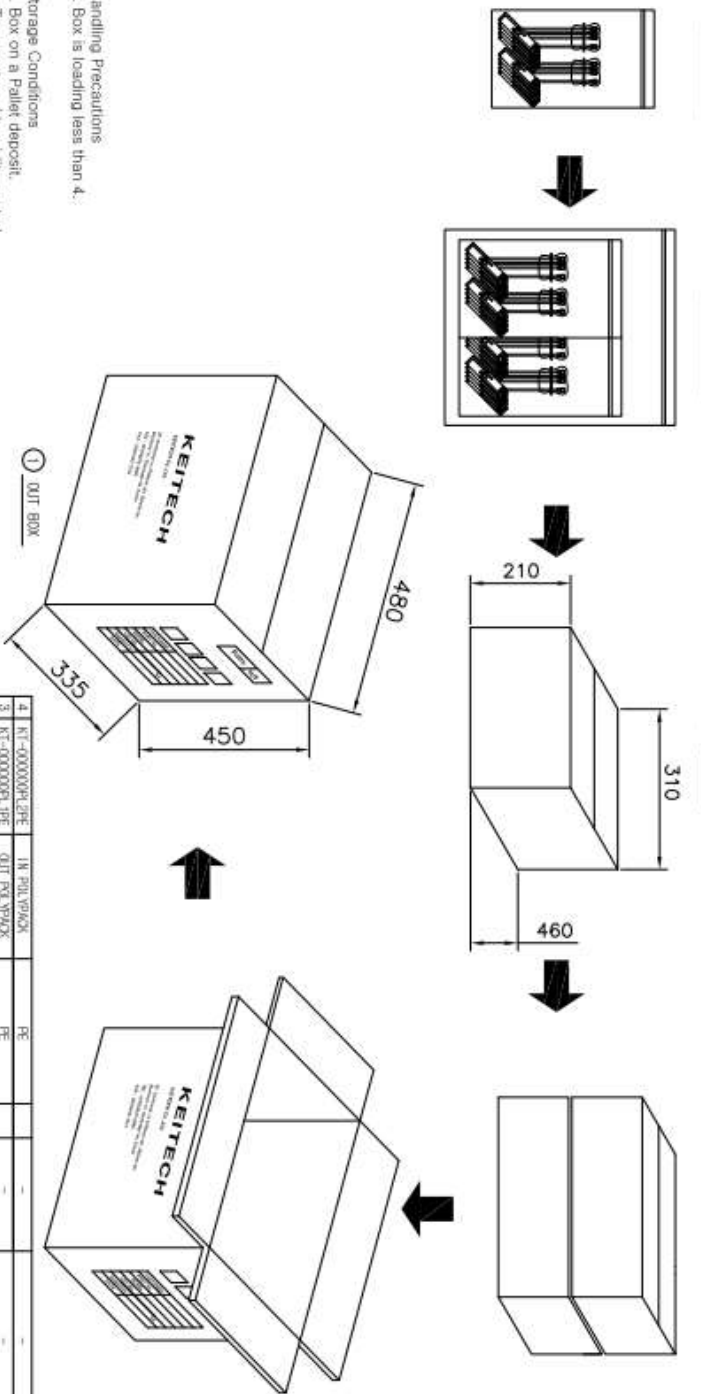
**Note**

1. **Keitech** : Goal orientation and goals of cardboard.

2. **OUT-BOX** After machining process will not damage the surface clean.

3. Design begins on goods that by submitting for approval.

4. General tolerances : ± 5.0



**① OUT BOX**

**② IN BOX**

**UNIT**

mm

1/16 1/8 3/16 1/4 5/16 3/8 7/8 1 1 1/8 1 1/4 1 1/2 1 3/4 2 2 1/4 2 1/2 3 3 1/2 4 4 1/2 5 5 1/2 6 6 1/2 7 7 1/2 8 8 1/2 9 9 1/2 10 11 11 1/2 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

**Keitech.co.kr**

DESIGNED

CHECKED

APPROVAL

Model

Name of Title

No.

PACKING

|            |                |
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#### 4. Quality Specification

##### 4.1 Required Test (With Report)

|                         |                        |                  |                  |                                                                                     |
|-------------------------|------------------------|------------------|------------------|-------------------------------------------------------------------------------------|
| Reliability Test Report |                        | 작 성              | 검 토              | 승 인                                                                                 |
|                         |                        |                  |                  |  |
| Objective               | Approval               | PERSON IN CHARGE | Park Byoung Wook |                                                                                     |
| TEST DATE               | 2026.03.14~2026.03.23. | DATE             | 2026.03.23       |                                                                                     |
| ITEM                    | Thread Antenna         | MODEL            | Doorbell Thread  |                                                                                     |
| Request                 | R & D                  | Quantity         | 20ea             |                                                                                     |
| Information             | PCB, CABLE             | CUSTOMMER        | LGIT             |                                                                                     |
| RESULT                  |                        | PASS             |                  |                                                                                     |

| Test Item |                         | Test Conditions / Judgment Standards                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                  | RESULT |
|-----------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 1         | Estimation of Documents | - It is checked missing and error of commissioned paper that drawing, approval sheet, design samples etc.<br>- Our requirements and test specifications are satisfied. |                                                                                                                                                                                                                                                                                                                                                                  | OK     |
| 2         | Characteristics         | Appearance                                                                                                                                                             | - It is checked abnormalities of color, printing specifications compared to design sample.<br>- It is checked abnormalities of appearance defect visually.<br>- It should not have scratch, strain, burr, discoloration, eccentricity, stain etc.                                                                                                                | OK     |
|           |                         | Dimensions                                                                                                                                                             | - It should be satisfied management standards of drawing, approval sheet.<br>- It is measured major point as a vernier caliper, microscope.<br>* Basic measurement points: length, width, thickness, etc.(Important point)                                                                                                                                       | OK     |
|           |                         | Electrical Characteristics                                                                                                                                             | - It should be satisfied management standards of drawing, approval sheet.<br>- Shall be tested as follows<br>1. It is recommended to be tested equipment setting and test environment in the space completely shielded from external radiation.<br>2. Network Analyzer and LCR meter are calibrated before test.<br>3. It is measured inductance using test jig. | OK     |



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| Test Item                  | Test Conditions / Judgment Standards                                                                                                                                                                                                           | RESULT |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 3 Thermal Shock            | 1. Test conditions<br>– Test temperature/Time: –40℃/45min, 85℃/45min<br>– Test Cycle: 27 Cycle<br>2. Standards of Judgment<br>– It should not be change of inductance and have problem at using, be damaged of appearance..                    | OK     |
| 4 High humidity Storage    | 1. Test conditions<br>– Test temperature/Humidity: 60℃/95%<br>– Test time: room temperature 1Hr after storage 48Hr<br>2. Standards of Judgment<br>– It should not be change of inductance and have problem at using, be damaged of appearance. | OK     |
| 5 High Temperature Storage | 1. Test conditions<br>– Test temperature: 85℃<br>– Test time: room temperature 1Hr after storage 48Hr<br>2. Standards of Judgment<br>– It should not be change of inductance and have problem at using, be damaged of appearance.              | OK     |
| 6 Low Temperature Storage  | 1. Test conditions<br>– Test temperature: –40℃<br>– Test time: room temperature 1Hr after storage 48Hr<br>2. Standards of Judgment<br>– It should not be change of inductance and have problem at using, be damaged of appearance. .           | OK     |

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#### 4.1.2 Thermal Shock

|             |                        |         |                  |  |                                         |  |
|-------------|------------------------|---------|------------------|--|-----------------------------------------|--|
| TEST RESULT | 2026.03.14~2026.03.23. |         | PERSON IN CHARGE |  | Park Byoung Wook                        |  |
| TEST ITEM   | Environment Test       |         | TEST Condition   |  | -40℃/45min ~ +85℃/45min<br>( 27 Cycle ) |  |
|             | Thermal Shock          |         |                  |  |                                         |  |
| SPEC        | BEFORE(VSWR)           |         |                  |  | RESULT                                  |  |
| Frequency   | 2400MHz                | 2500MHz |                  |  |                                         |  |
| SPEC        | Max 2.5                | Max 2.5 |                  |  |                                         |  |
| 1           | 2.33                   | 2.36    |                  |  | PASS                                    |  |
| 2           | 2.32                   | 2.36    |                  |  | PASS                                    |  |
| 3           | 2.34                   | 2.35    |                  |  | PASS                                    |  |
| 4           | 2.36                   | 2.35    |                  |  | PASS                                    |  |
| 5           | 2.30                   | 2.31    |                  |  | PASS                                    |  |
| MAX         | 2.36                   | 2.36    |                  |  |                                         |  |
| MIN         | 2.30                   | 2.31    |                  |  |                                         |  |
| AVG.        | 2.33                   | 2.34    |                  |  |                                         |  |
|             |                        |         |                  |  |                                         |  |
| SPEC        | AFTER(VSWR)            |         |                  |  | RESULT                                  |  |
| Frequency   | 2400MHz                | 2500MHz |                  |  |                                         |  |
| SPEC        | Max 2.5                | Max 2.5 |                  |  |                                         |  |
| 1           | 2.32                   | 2.39    |                  |  | PASS                                    |  |
| 2           | 2.30                   | 2.34    |                  |  | PASS                                    |  |
| 3           | 2.37                   | 2.35    |                  |  | PASS                                    |  |
| 4           | 2.38                   | 2.38    |                  |  | PASS                                    |  |
| 5           | 2.35                   | 2.33    |                  |  | PASS                                    |  |
| MAX         | 2.38                   | 2.39    |                  |  |                                         |  |
| MIN         | 2.30                   | 2.33    |                  |  |                                         |  |
| AVG.        | 2.34                   | 2.36    |                  |  |                                         |  |

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#### 4.1.3 High humidity Storage

|           |                        |         |                  |                   |        |
|-----------|------------------------|---------|------------------|-------------------|--------|
| TEST DATE | 2026.03.14~2026.03.23. |         | PERSON IN CHARGE | Park Byoung Wook  |        |
| TEST ITEM | Environment Test       |         | TEST Condition   | 60℃ / 95% / 48Hrs |        |
|           | High Humidity          |         |                  |                   |        |
| SPEC      | BEFORE(VSWR)           |         |                  |                   | RESULT |
| Frequency | 2400MHz                | 2500MHz |                  |                   |        |
| SPEC      | Max 2.5                | Max 2.5 |                  |                   |        |
| 1         | 2.30                   | 2.38    |                  |                   | PASS   |
| 2         | 2.39                   | 2.36    |                  |                   | PASS   |
| 3         | 2.32                   | 2.40    |                  |                   | PASS   |
| 4         | 2.38                   | 2.36    |                  |                   | PASS   |
| 5         | 2.38                   | 2.38    |                  |                   | PASS   |
| MAX       | 2.39                   | 2.40    |                  |                   |        |
| MIN       | 2.30                   | 2.36    |                  |                   |        |
| AVG.      | 2.35                   | 2.38    |                  |                   |        |
|           |                        |         |                  |                   |        |
| SPEC      | AFTER(VSWR)            |         |                  |                   | RESULT |
| Frequency | 2400MHz                | 2500MHz |                  |                   |        |
| SPEC      | Max 2.5                | Max 2.5 |                  |                   |        |
| 1         | 2.33                   | 2.33    |                  |                   | PASS   |
| 2         | 2.30                   | 2.39    |                  |                   | PASS   |
| 3         | 2.35                   | 2.33    |                  |                   | PASS   |
| 4         | 2.34                   | 2.32    |                  |                   | PASS   |
| 5         | 2.40                   | 2.34    |                  |                   | PASS   |
| MAX       | 2.40                   | 2.39    |                  |                   |        |
| MIN       | 2.30                   | 2.32    |                  |                   |        |
| AVG.      | 2.34                   | 2.34    |                  |                   |        |

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#### 4.1.4 High Temperature Storage

|           |                        |         |                  |                  |        |
|-----------|------------------------|---------|------------------|------------------|--------|
| TEST DATE | 2026.03.14~2026.03.23. |         | PERSON IN CHARGE | Park Byoung Wook |        |
| TEST ITEM | Environment Test       |         | TEST Condition   | 85℃/ 48Hrs       |        |
|           | High Temperature       |         |                  |                  |        |
| SPEC      | BEFORE(VSWR)           |         |                  |                  | RESULT |
| Frequency | 2400MHz                | 2500MHz |                  |                  |        |
| SPEC      | Max 2.5                | Max 2.5 |                  |                  |        |
| 1         | 2.31                   | 2.39    |                  |                  | PASS   |
| 2         | 2.31                   | 2.32    |                  |                  | PASS   |
| 3         | 2.39                   | 2.39    |                  |                  | PASS   |
| 4         | 2.34                   | 2.35    |                  |                  | PASS   |
| 5         | 2.32                   | 2.36    |                  |                  | PASS   |
| MAX       | 2.39                   | 2.39    |                  |                  |        |
| MIN       | 2.31                   | 2.32    |                  |                  |        |
| AVG.      | 2.33                   | 2.36    |                  |                  |        |
|           |                        |         |                  |                  |        |
| SPEC      | AFTER(VSWR)            |         |                  |                  | RESULT |
| Frequency | 2400MHz                | 2500MHz |                  |                  |        |
| SPEC      | Max 2.5                | Max 2.5 |                  |                  |        |
| 1         | 2.40                   | 2.34    |                  |                  | PASS   |
| 2         | 2.31                   | 2.34    |                  |                  | PASS   |
| 3         | 2.35                   | 2.31    |                  |                  | PASS   |
| 4         | 2.40                   | 2.32    |                  |                  | PASS   |
| 5         | 2.39                   | 2.32    |                  |                  | PASS   |
| MAX       | 2.40                   | 2.34    |                  |                  |        |
| MIN       | 2.31                   | 2.31    |                  |                  |        |
| AVG.      | 2.37                   | 2.33    |                  |                  |        |

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#### 4.1.5 Low Temperature Storage

|           |                        |         |                  |                  |        |
|-----------|------------------------|---------|------------------|------------------|--------|
| TEST DATE | 2026.03.14~2026.03.23. |         | PERSON IN CHARGE | Park Byoung Wook |        |
| TEST ITEM | Environment Test       |         | TEST Condition   | -40℃ / 48Hrs     |        |
|           | Low Temperature        |         |                  |                  |        |
| SPEC      | BEFORE(VSWR)           |         |                  |                  | RESULT |
| Frequency | 2400MHz                | 2500MHz |                  |                  |        |
| SPEC      | Max 2.5                | Max 2.5 |                  |                  |        |
| 1         | 2.31                   | 2.37    |                  |                  | PASS   |
| 2         | 2.37                   | 2.34    |                  |                  | PASS   |
| 3         | 2.32                   | 2.37    |                  |                  | PASS   |
| 4         | 2.40                   | 2.40    |                  |                  | PASS   |
| 5         | 2.31                   | 2.39    |                  |                  | PASS   |
| MAX       | 2.40                   | 2.40    |                  |                  |        |
| MIN       | 2.31                   | 2.34    |                  |                  |        |
| AVG.      | 2.34                   | 2.37    |                  |                  |        |
|           |                        |         |                  |                  |        |
| SPEC      | AFTER(VSWR)            |         |                  |                  | RESULT |
| Frequency | 2400MHz                | 2500MHz |                  |                  |        |
| SPEC      | Max 2.5                | Max 2.5 |                  |                  |        |
| 1         | 2.33                   | 2.37    |                  |                  | PASS   |
| 2         | 2.36                   | 2.40    |                  |                  | PASS   |
| 3         | 2.38                   | 2.39    |                  |                  | PASS   |
| 4         | 2.34                   | 2.33    |                  |                  | PASS   |
| 5         | 2.35                   | 2.39    |                  |                  | PASS   |
| MAX       | 2.38                   | 2.40    |                  |                  |        |
| MIN       | 2.33                   | 2.33    |                  |                  |        |
| AVG.      | 2.35                   | 2.38    |                  |                  |        |

