



# 年益實業股份有限公司

## Nienyi Industrial Corp.

Manufacturer address: 22nd Floor, Factory Building, No. 321 Qiaohun  
South Road, Baijiao Town, Doumen District, Zhuhai City

### Index

| Page | Specification                             |
|------|-------------------------------------------|
| 1    | The Cover                                 |
| 2    | Revision Record                           |
| 3    | Index                                     |
| 4    | Electrical Specifications & Product Photo |
| 5    | Return Loss Test Report                   |
| 6    | VSWR Test Report                          |
| 7~8  | 2D Patterns                               |
| 9    | Product Drawing                           |
| 10   | Cable Drawing                             |
| 11   | Packing                                   |
| 12   | BOM List                                  |



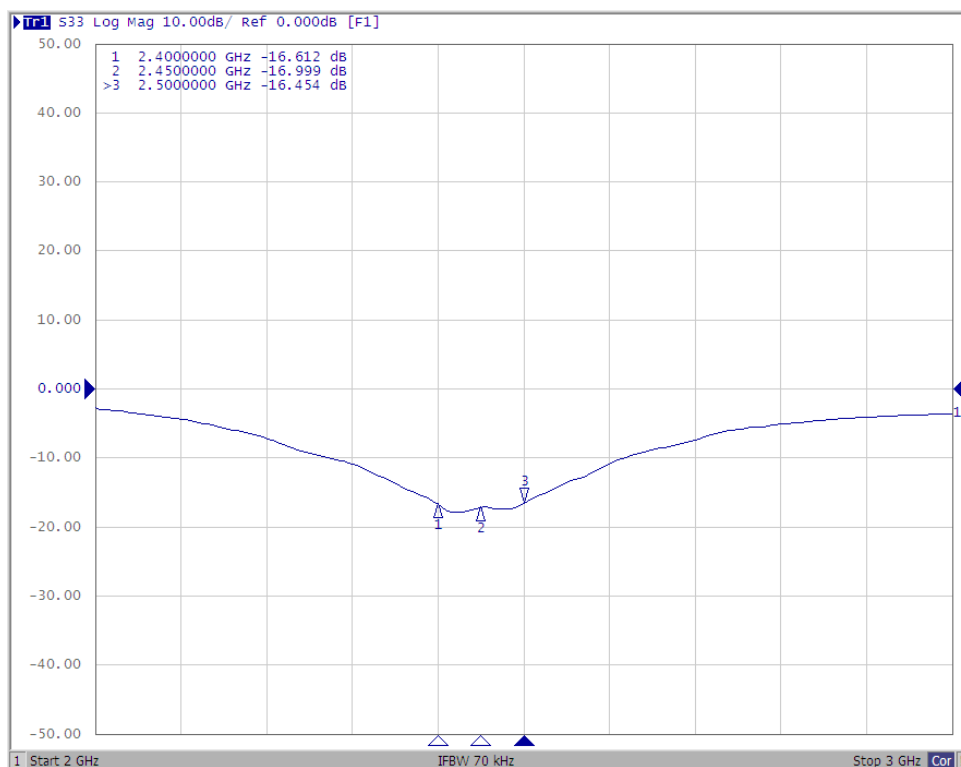
01. Electrical Specifications

| Item              | Specifications              |
|-------------------|-----------------------------|
| Frequency Range   | 2.4GHz ~ 2.5GHz             |
| Impedance         | 50Ω                         |
| Polarization Type | Linear                      |
| Peak Gain         | ≤2 dBi                      |
| Cable             | Φ1.13 RF Cable              |
| Connector         | MHF -I Plug (20278-1*2R-13) |

02. Product Photo

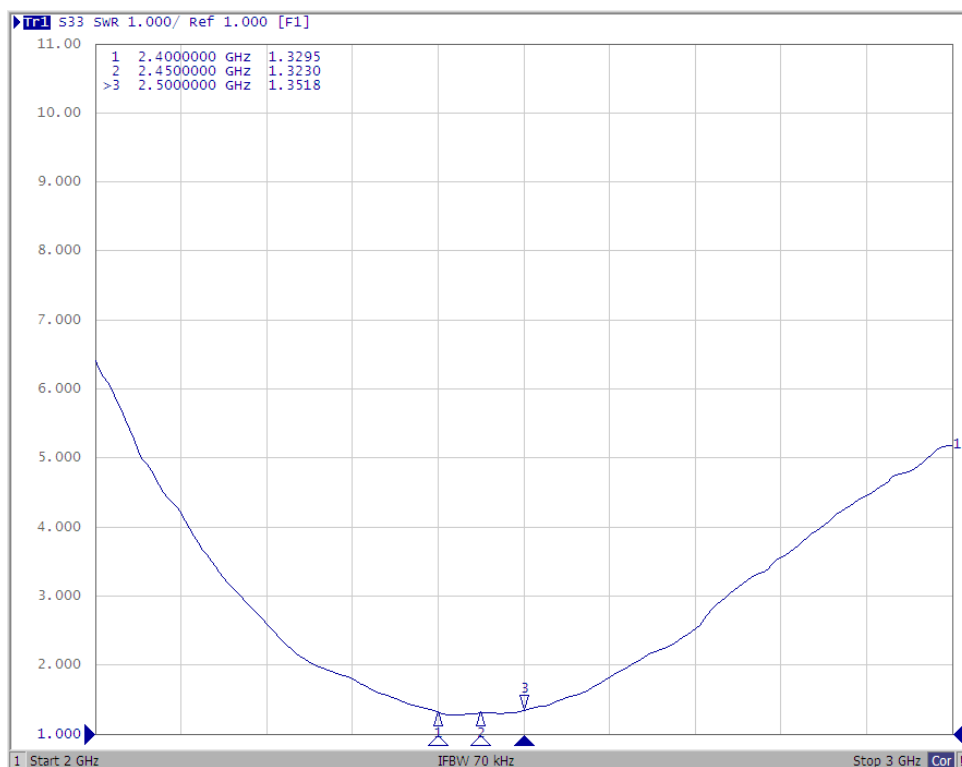


## 02. Return Loss Test



| Frequency | Return Loss |
|-----------|-------------|
| 2.400 GHz | -16.612 dB  |
| 2.450 GHz | -16.999 dB  |
| 2.500 GHz | -16.454 dB  |

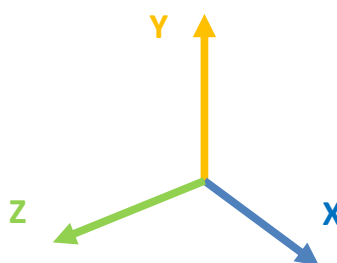
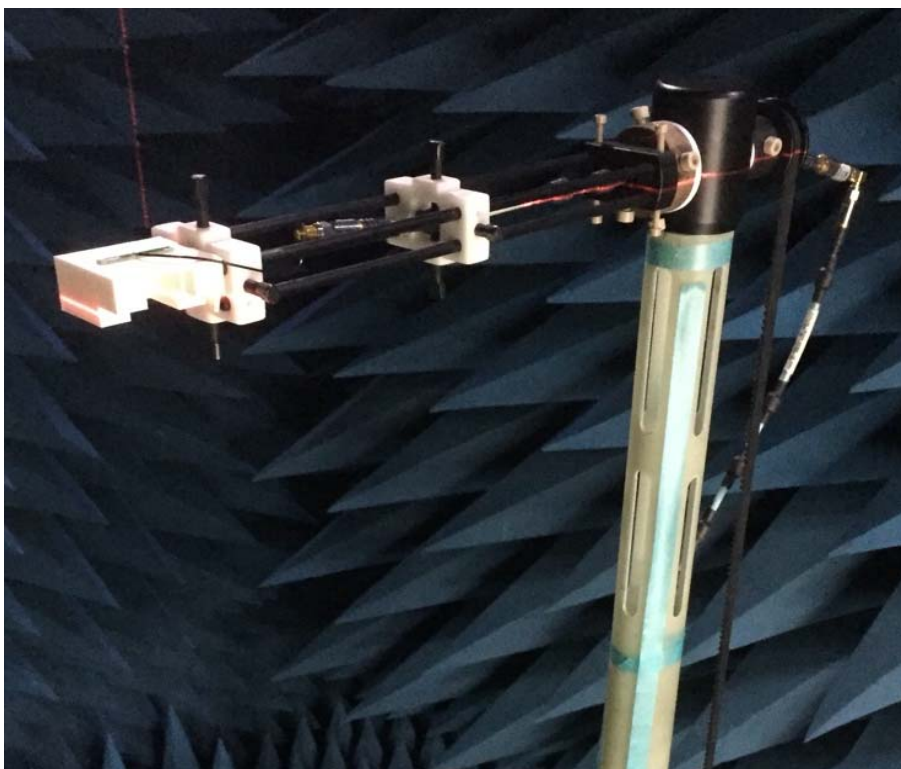
### 03. VSWR Test



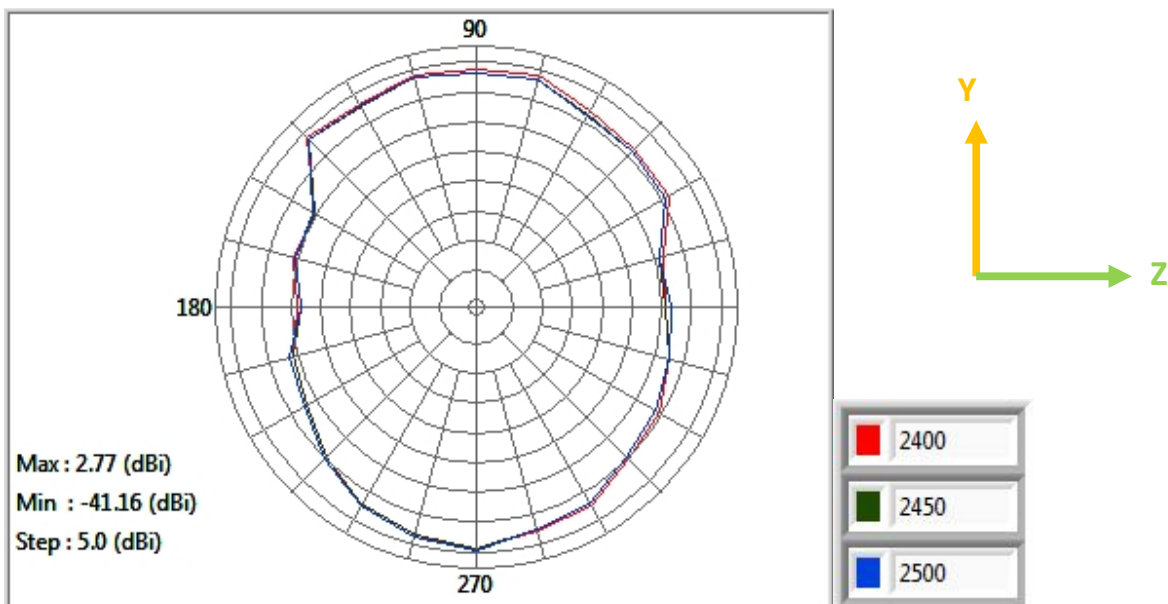
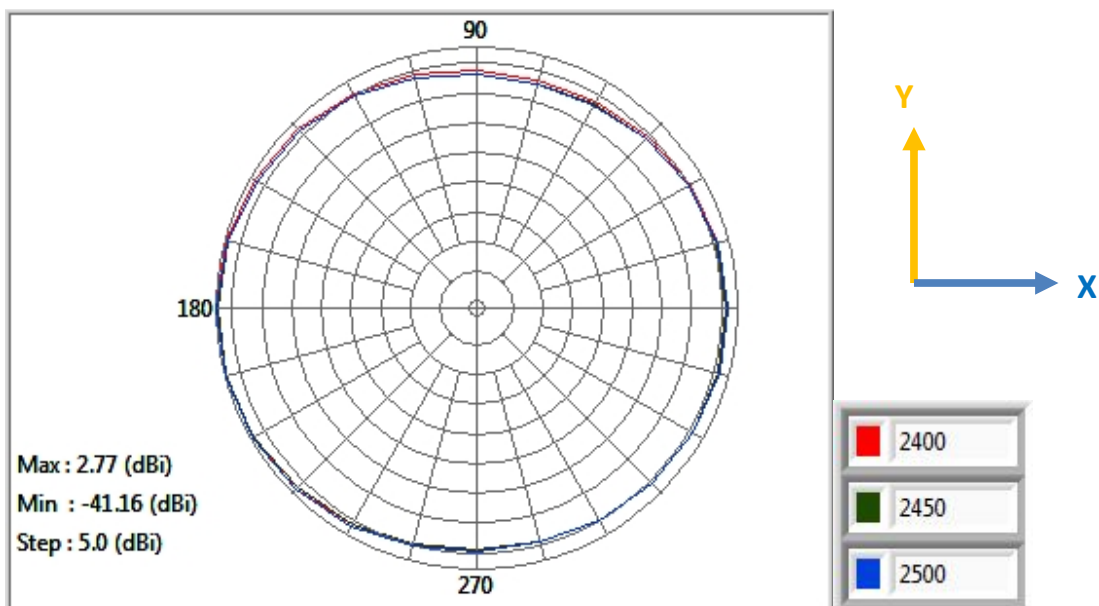
| Frequency | VSWR   |
|-----------|--------|
| 2.400 GHz | 1.3295 |
| 2.450 GHz | 1.3230 |
| 2.500 GHz | 1.3518 |

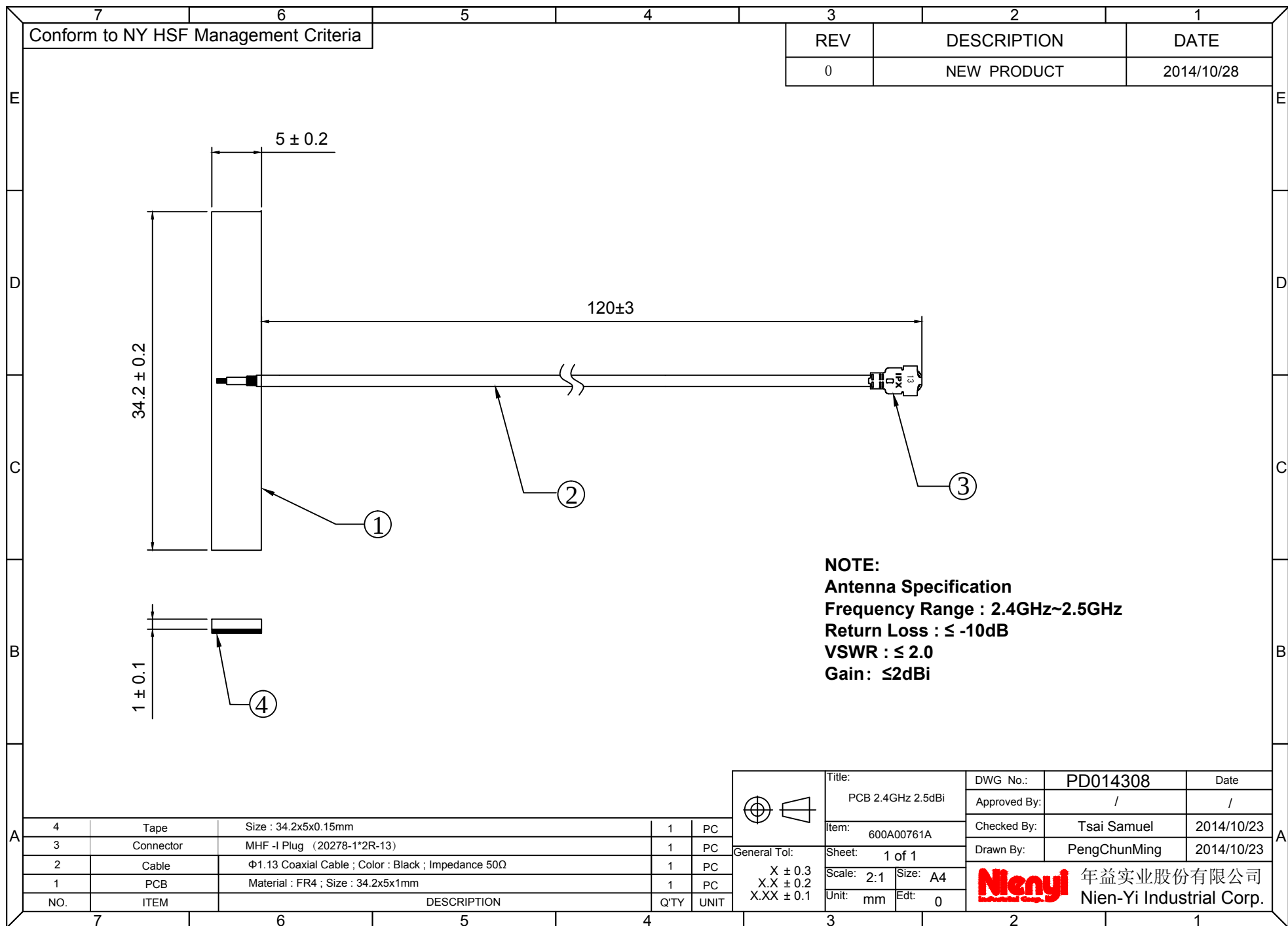
04. 2D Patterns

Product Photos



## 2D Patterns (2.4G)





| REV | DESCRIPTION         | DATE      |
|-----|---------------------|-----------|
| 0   | ENGINEERING RELEASE | 2013/5/23 |

## CABLE COMPOSITION:

## 1.0 CONDUCTOR:

1.2 CONSTRUCTION: 32AWG STRANDED SILVER-COATED COPPER

## 2.0 INSULATION

2.1 MATERIAL : FEP

2.2 DIAMETER: 0.70MM  $\pm$  0.05MM

2.3 COLOR: NATURE COLOR

## 3.0 BRAID:

3.2 MATERIAL: 44AWG TINNED COPPER; OVERLAP: 90%MIN

## 4.0 JACKET:

4.1 MATERIAL : FEP

4.2 DIAMETER: 1.13MM  $\pm$  0.05MM

4.3 COLOR: BLACK

## 5.0 ELECTRICAL PROPERTIES (AT 20℃)

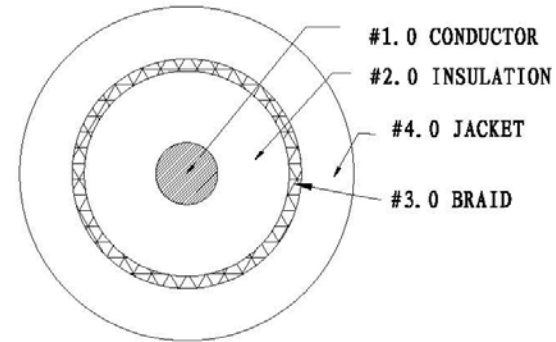
5.1 CONDUCTOR RESISTANCE :  $< 597 \Omega / \text{KM}$ 5.2 INSULATION RESISTANCE :  $> 1000 \text{M}\Omega \cdot \text{KM}$ 

5.3 DIELECTRIC STRENGTH(AC) : 500V/MIN

5.4 IMPEDANCE :  $50 \pm 3 \Omega$ 

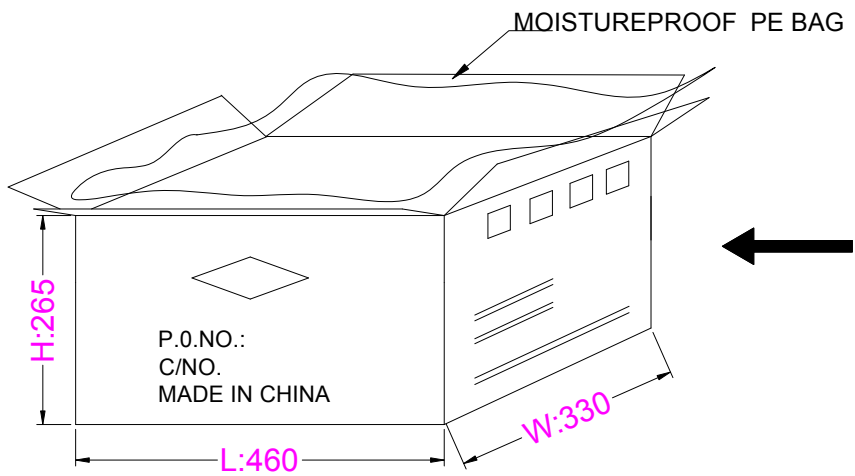
5.5 RATED TEMPERATURE : 200℃

5.6 RATED VOLTAGE : 30V

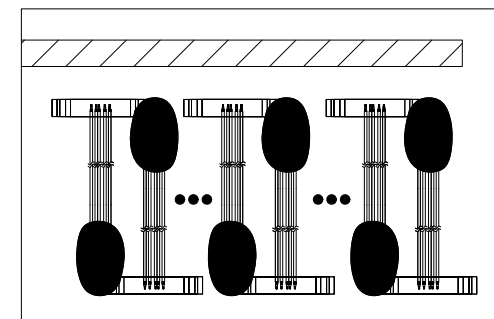


|                   |       |    |           |        |                                                      |           |
|-------------------|-------|----|-----------|--------|------------------------------------------------------|-----------|
| TITLE<br>32AWG*1C |       |    | DWG NO. : |        | DFA00615                                             | DATE      |
|                   |       |    | APPROVED: |        | LUOXL                                                | 2013/5/23 |
| ITEM:             |       |    | CHECKED:  |        | HUANGJ                                               | 2013/5/23 |
| P/N:              |       |    | DRAWING:  |        | ZHANGJ                                               | 2013/5/23 |
| UNIT              | SCALE | A4 | EDIT      | 0      | <b>Nienyi</b> 年益实业股份有限公司<br>NIEN-YI INDUSTRIAL CORP. |           |
| mm                | NONE  |    | PAGE      | 1 OF 1 |                                                      |           |

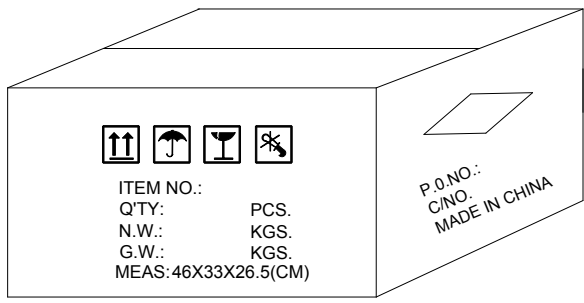
| 7                                     |  | 6 |  | 5 |  | 4 |  | 3   |  | 2           |  | 1         |  |
|---------------------------------------|--|---|--|---|--|---|--|-----|--|-------------|--|-----------|--|
| Conform to NY HSF Management Criteria |  |   |  |   |  |   |  | REV |  | DESCRIPTION |  | DATE      |  |
|                                       |  |   |  |   |  |   |  | 0   |  | NEW PRODUCT |  | 2018/1/29 |  |



MOISTUREPROOF PE BAG



10PCS/ Pearl Cotton Bag  
100PCS/PE Bag



|                                                                                       |         |          |              |          |              |                                                                                       |
|---------------------------------------------------------------------------------------|---------|----------|--------------|----------|--------------|---------------------------------------------------------------------------------------|
|  | Title:  |          | DWG No.:     |          | Date         |                                                                                       |
|                                                                                       | PACKING |          | Approved By: |          | Wuliang      |                                                                                       |
|                                                                                       |         |          | Checked By:  |          | Zhangyuhuan  |                                                                                       |
|                                                                                       | Item:   |          | Drawn By:    |          | Chensongqing |                                                                                       |
| General Tol:                                                                          |         | Sheet:   |              | Size:    |              |  |
| X ± 0.3<br>X.X ± 0.2<br>X.XX ± 0.1                                                    |         | 1 of 1   |              | A4       |              |                                                                                       |
|                                                                                       |         | Scale: / |              | Unit: mm |              |                                                                                       |
|                                                                                       |         | Edit:    |              | 0        |              | Nienyi 年益实业股份有限公司<br>Nien-Yi Industrial Corp.                                         |
|                                                                                       |         |          |              |          |              |                                                                                       |

美商年益科技（珠海）有限公司  
Nien-Yi Technology (ZhuHai) Co., Ltd.

**BOM**

| NO. | ITEM           | SPEC                             | MATERIALS MAKER | MAKER   | Q'TY   | UL NO. | UL TYPE | UL Flammability |
|-----|----------------|----------------------------------|-----------------|---------|--------|--------|---------|-----------------|
| 1   | CABLE          | Ø1.13 Coaxial<br>Cable,Black,50Ω | NIEN-YI         | NIEN-YI | LENGTH | NONE   | NONE    | NONE            |
| 2   | Antenna        | FR4,34.2*5*1mm                   | HANGDA          | HANGDA  | 1PCS   | NONE   | NONE    | NONE            |
| 3   | Connector      | MHF -I Plug<br>(20278-1*2R-13)   | IPEX            | IPEX    | 1PCS   | NONE   | NONE    | NONE            |
| 4   | Sponge<br>Tape | 34.2*5*0.15mm                    | TIANYU          | TIANYU  | 1PCS   | NONE   | NONE    | NONE            |
|     |                |                                  |                 |         |        |        |         |                 |
|     |                |                                  |                 |         |        |        |         |                 |
|     |                |                                  |                 |         |        |        |         |                 |
|     |                |                                  |                 |         |        |        |         |                 |
|     |                |                                  |                 |         |        |        |         |                 |
|     |                |                                  |                 |         |        |        |         |                 |
|     |                |                                  |                 |         |        |        |         |                 |
|     |                |                                  |                 |         |        |        |         |                 |
|     |                |                                  |                 |         |        |        |         |                 |
|     |                |                                  |                 |         |        |        |         |                 |
|     |                |                                  |                 |         |        |        |         |                 |