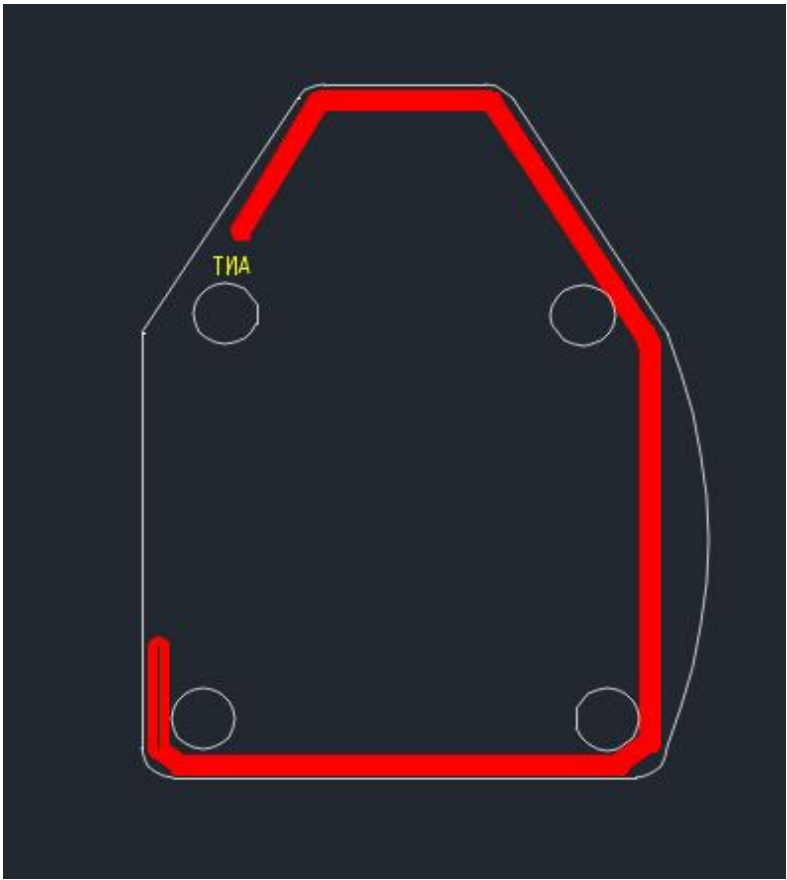


# SPECIFICATION

DongGuan City Yumei Electronics Co.,Ltd..

## specification

|      |                                            |    |            |
|------|--------------------------------------------|----|------------|
| 客户   | /                                          | 频段 | 433. 92MHz |
| 项目名称 | PCB Antenna for RF1.13 to I-pex<br>L=100mm | 版本 | 01         |
| 产品编号 | 83040010078                                | 颜色 | Black      |
| DATE | 2025/05/16                                 |    |            |



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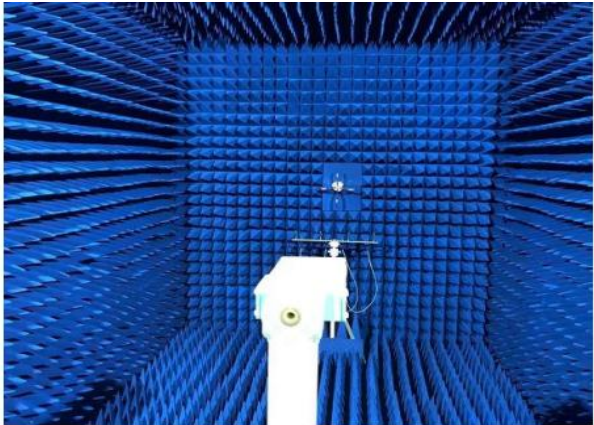
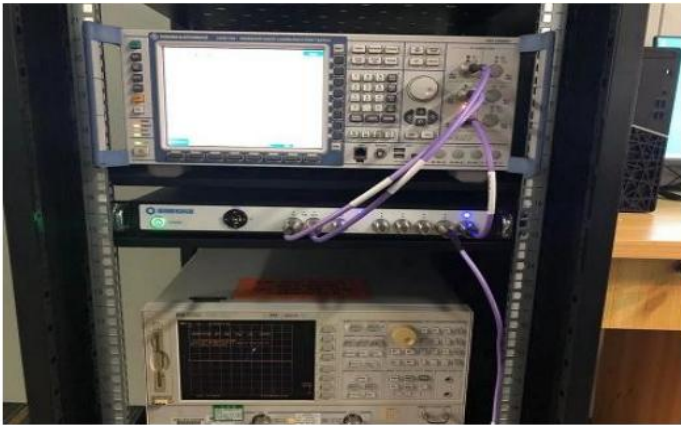
# 目录/catalogue

- 1. Laboratory test environment and equipment
- Two: Test data
- Three: electrical parameters
- Four: Material list
- Five: Product diagram
- Six :RF1.13 wire specification

## SPECIFICATION

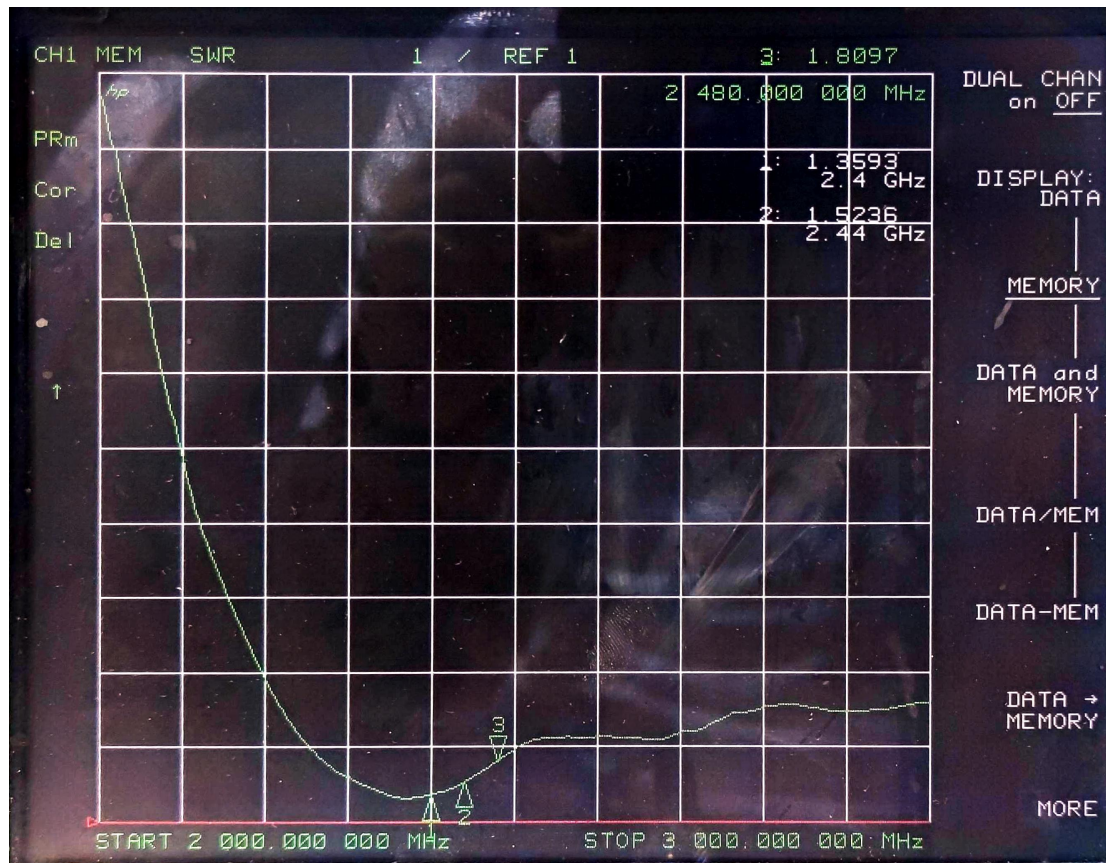
### 1.Laboratory test environment and equipment

| test item                              | testing equipment      |
|----------------------------------------|------------------------|
| S11、S12 、 VSWR 、 LOSS                  | network analyzer 8753E |
| Efficiency 、 Gain 3D Radiation Pattern | ETS 3Ddarkroom、 8753E  |
| TRP、 TIS                               | ETS 3Ddarkroom、 CMW500 |



# SPECIFICATION

## 2. test data



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# SPECIFICATION

## 3.lectric parameter:

|                              |                       |
|------------------------------|-----------------------|
| frequency domain             | 433.92MHz             |
| characteristic impedance     | 50Ω                   |
| standing-wave ratio<br>(SWR) | $\leq 1.0$            |
| polarization                 | circular polarization |
| gain                         | 0dBi                  |
| storage temperature          | -40℃~+85℃             |
| operating temperature        | -40℃~+85℃             |

We statement that All measurements were performed radiated and therefore additional antenna gain documentation is not required.

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# SPECIFICATION



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## 4. List of materials:

| 序号 | name of material | Material Main material |
|----|------------------|------------------------|
| 1  | I-PEX            | phosphor copper        |
| 2  | RF1.13-BLAK      | Teflon wire            |
| 3  | PCB antenna      | RF-4                   |
|    |                  |                        |
|    |                  |                        |
|    |                  |                        |
|    |                  |                        |

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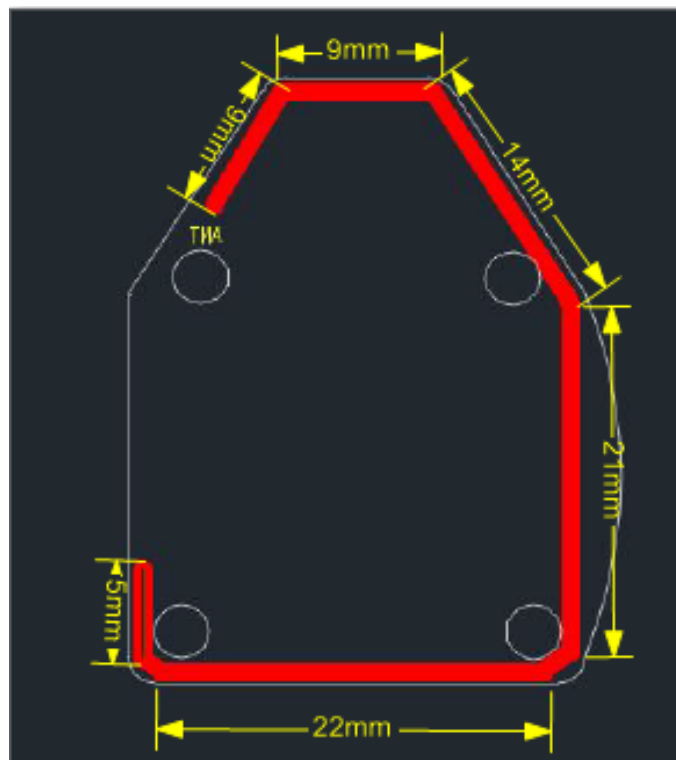
# SPECIFICATION



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## 5. product drawing



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# Product specification

**product model:** : RF1.13TC/P-TC  
: 7/0.08TC

Specifications:                   —

| version number | Revision date | revised contents             |  | Revised  | 发行日期<br>date of issue |
|----------------|---------------|------------------------------|--|----------|-----------------------|
| A              | 2024. 10. 10  | new increase                 |  | 向明松      | 2024. 10. 10          |
| B              | 2024. 11. 20  | revised Specification Format |  | 杨道东      | 2024. 11. 20          |
| C              |               |                              |  |          |                       |
| D              |               |                              |  |          |                       |
| E              |               |                              |  |          |                       |
| F              |               |                              |  |          |                       |
| Preparation    |               | auditor                      |  | approver |                       |
|                |               |                              |  |          |                       |

product description

1.1

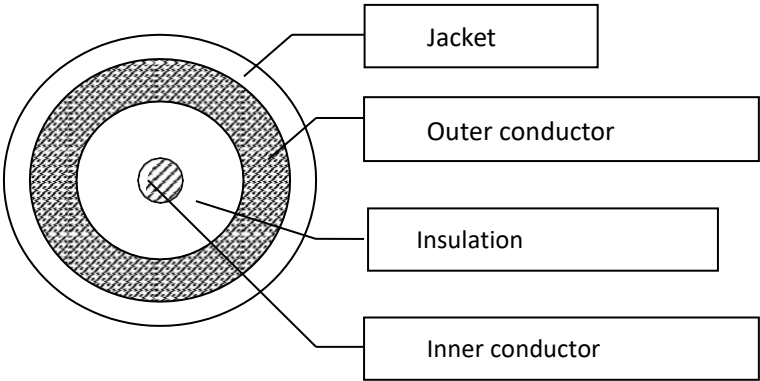
This product is soft Teflon insulation series coaxial cable. Is suitable for the microwave equipment, wireless communication systems and equipment.

1.2

Product features : Excellent flexi-ability, good V.S.W.R, good shielding performance.

Cable with data and structure diagram:

1.3 : structure  
diagram



1.4 :

Specification of cable:

| Item            |             | NO | Materials and size                                               |
|-----------------|-------------|----|------------------------------------------------------------------|
| Inner conductor | Material    | /  | Tinned copper wire                                               |
|                 | Composition | mm | 7/0.08±0.003                                                     |
|                 | OD          | mm | Φ0.24                                                            |
| Insulation      | Material    | /  | Teflon FEP (200 degrees of fluorinated ethylene propylene resin) |
|                 | Thickness   | mm | 0.21                                                             |
|                 | OD          | mm | Φ0.68±0.03                                                       |
|                 | Color       | /  | transparent color                                                |
| Outer conductor | Material    | /  | Tinned copper wire                                               |
|                 | Form        | /  | Weave                                                            |
|                 | Density     | %  | 93%(26 目 (Mesh); 80 编 (Coding 5*16/0.05mm) )                     |
|                 | OD          | mm | Φ0.88±0.05                                                       |
| Jacket          | Material    | /  |                                                                  |

|  |                 |    |                                                                           |
|--|-----------------|----|---------------------------------------------------------------------------|
|  |                 |    | Teflon FEP (200 degrees of fluorinated ethylene propylene resin)          |
|  | Thickness       | mm | 0.125                                                                     |
|  | OD              | mm | $\Phi 1.13 \pm 0.05$                                                      |
|  | color of sheath | /  | Gray or black ( Can also be processed according to customer requirements) |

#### The cable properties

##### Electrical properties

| test project                | Standard value                                               |                  | Note                                           |
|-----------------------------|--------------------------------------------------------------|------------------|------------------------------------------------|
| Rated temperature / voltage | $-55^{\circ}\text{C} \sim +200^{\circ}\text{C} / 30\text{V}$ |                  | /                                              |
| Insulation resistance       | $3000\text{M}\Omega \cdot \text{Km}$                         |                  | Resistance tester                              |
| Conductor resistance        | $482\Omega / \text{Km } 20^{\circ}\text{C}$                  |                  | /                                              |
| Pressure                    | 2KV                                                          |                  | Withstand voltage tester                       |
| Insulation                  | Unaged                                                       | Tensile Strength | 2500 PSI MIN. (1.76Kg/mm <sup>2</sup> )        |
|                             |                                                              | Elongation       | 200% MIN                                       |
|                             | Aged                                                         | Tensile Strength | 2500 PSI*75% (168HRS*232°C)                    |
|                             |                                                              | Elongation       | 200% MIN*75% (168HRS*232°C)                    |
| Jacket                      | Unaged                                                       | Tensile Strength | 2500 PSI MIN. (1.76Kg/mm <sup>2</sup> )        |
|                             |                                                              | Elongation       | 200% MIN                                       |
|                             | Aged                                                         | Tensile Strength | 2500 PSI*75% (168HRS*232°C)                    |
|                             |                                                              | Elongation       | 200% MIN*75% (168HRS*232°C)                    |
| characteristic impedance    | $50 \pm 2\Omega$                                             |                  | Analysis of network analyzer<br>The TRK tester |
| Capacitance                 | $96 \pm 3 \text{ PF/M}$                                      |                  | Digital capacitance meter                      |
| Velocity                    | 69%                                                          |                  | Analysis of network analyzer                   |
| Propagation Delay           | 4.9ns/m                                                      |                  | /                                              |