



# RF Connector Datasheet

**Product OC:** YSLT001W3AM

**Version:** 1.0

**Date:** 2025-12-22

**Status:** Released

**Product Name:** DC–9GHz IPEX MHF1 Connector

**Key Features:**

Frequency Band: DC–9000 MHz

Dimensions: 3.1 mm × 3 mm × 1.25 mm

Connector Type: I-PEX MHF 1 RECEPTACLE

RoHS and REACH Compliant

# Overview

To meet the requirements of devices for RF connection among antennas, modules, and motherboards, as well as long-distance wiring, Quectel provides customers with a wide range of RF cable/connector products. These cables/connectors use high-quality materials and connectors to reduce the loss to the greatest extent, ensuring overall RF performance. Quectel also provides customized services according to customers' particular requirements for cable material, cable length, and connector type.

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# 1 Specification

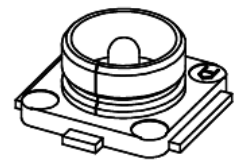
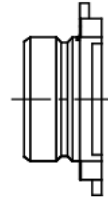
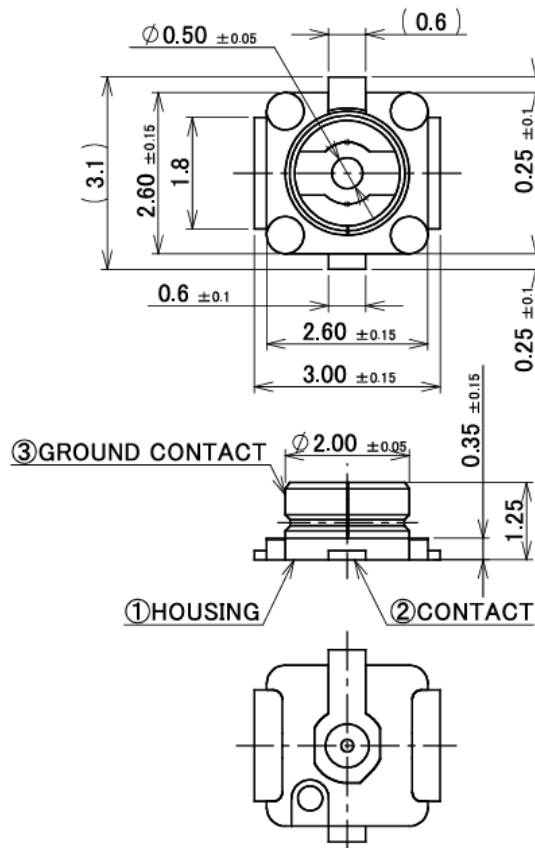
## 1.1. Electrical

| Electrical          |             |
|---------------------|-------------|
| Frequency Range     | DC–9000 MHz |
| Impedance           | 50 $\Omega$ |
| VSWR                | $\leq 1.8$  |
| Rated voltage value | 60 V        |

## 1.2. Mechanical & Environmental

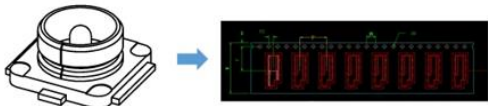
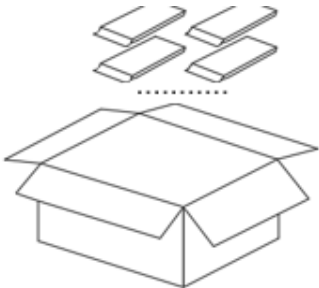
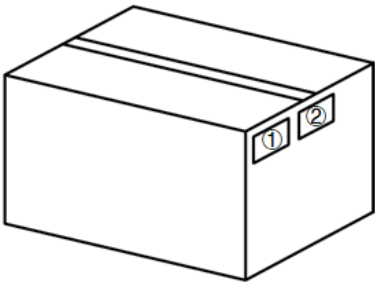
| Mechanical               |                         |
|--------------------------|-------------------------|
| Dimensions               | 3.1 mm × 3 mm × 1.25 mm |
| Connector Type           | I-PEX MHF 1 RECEPTACLE  |
| Weight                   | Typ.16 mg               |
| Mounting type            | SMD                     |
| Environmental            |                         |
| Operation Temperature    | -40 °C to +85 °C        |
| Storage Temperature      | -40 °C to +85 °C        |
| RoHS and REACH Compliant | Yes                     |

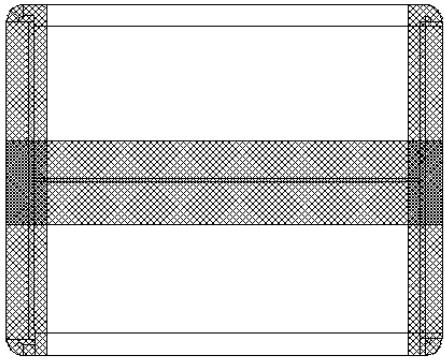
## 2 Drawing



| 3   | GROUND CONTACT | PHOSPHOR BRONZE | ALL OVER Ni 1.00 $\mu$ m MIN.<br>CONTACT PART Au 0.05 $\mu$ m MIN.<br>SOLDERING PART Au 0.05 $\mu$ m MIN. |
|-----|----------------|-----------------|-----------------------------------------------------------------------------------------------------------|
| 2   | CONTACT        | BRASS           | ALL OVER Ni 1.00 $\mu$ m MIN.<br>CONTACT PART Au 0.10 $\mu$ m MIN.<br>SOLDERING PART Au 0.03 $\mu$ m MIN. |
| 1   | HOUSING        | LCP             | UL94V-0, WHITE                                                                                            |
| NO. | DISCRIPTION    | MATERIAL        | FINISH , REMARKS                                                                                          |

# 3 Packaging

| Step | Packaging Picture / 2D Picture                                                      | Description                                                                                                                                                                                                                                    |
|------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    |    | Reel                                                                                                                                                                                                                                           |
| 2    |   | Three reel of products is placed in an inner box.<br>(5000 Products / Reel)<br>(15000 Reels / Inner Box)                                                                                                                                       |
| 3    |  | (4 Inner Boxes / Carton Box)<br>(60000 Products / Carton Box)<br>Estimated quantity<br>Products that cannot fill the entire carton box are packed in a suitable size carton box<br><u>Carton Size:</u><br><u>L × W × H = 470 × 430× 310 mm</u> |
| 4    |  | <b>Position for Attaching Labels</b><br>① Carton Label<br>② Quality Label                                                                                                                                                                      |

|      |                                                                                                                                                                     |                                                            |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| 5    |                                                                                    | <p><b>Sealing Cartons</b><br/>H-shaped sealing cartons</p> |
| Note | <p>The initial packaging method described above is for reference only, and the final actual packaging method shall be subject to the actual shipping packaging.</p> |                                                            |

# Contact Us

At Quectel, our aim is to provide timely and comprehensive services to our customers. If you require any assistance, please contact our headquarters:

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## Revision History

| Version | Date       | Author                                                           | Note                     |
|---------|------------|------------------------------------------------------------------|--------------------------|
| -       | 2025-12-22 | Christopher Yao/<br>Blake Xiang/<br>Strong Qiang/<br>Rainey Liao | Creation of the document |
| 1.0     | 2025-12-22 | Christopher Yao/<br>Blake Xiang/<br>Strong Qiang/<br>Rainey Liao | First official release   |



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