

**N type Connector Jack Straight Panel Mount - RHT-614-0146**



**Drawing**

|  |  |   |                           |         |            |          |
|--|--|---|---------------------------|---------|------------|----------|
|  |  | Product NO. <span style="float: right;">RHT-614-0146</span> |                           |         |            |          |
|  |  | REV   | DESCRIPTION               | DWN     | DATE       | APPROVEN |
|  |  | A   | First issue               | Mr Wang | 2020/03/27 | JIM.KING |
|  |  | B   | Increase rubber core size | Gavin   | 2020/10/30 | JIM.KING |

TOP  
Recommended Footprint  
BOTTOM

**Specifications**  
 Impedance: 50 Ohms  
 Frequency Range: 0-6G  
 VSWR: 1.3MAX  
 Working Voltage: 1000 VRMS (max at sea level)  
 Dielectric Withstanding Voltage: 1500 vrms (max at sea level)  
 Insulation Resistance: 5000 Ohms min  
 Durability Mating: 500 Cycles min  
 Temperature Range: -40°C TO +125°C

| NO | DESCRIPTION | MATERIAL | FINISH | QTY |
|----|-------------|----------|--------|-----|
| 5  | UNT         | BRASS    | NICKEL | 1   |
| 4  | CASKEL      | Iron     | NICKEL | 1   |
| 3  | PIN         | Be-Cu    | GOLD   | 1   |
| 2  | INSULATOR   | PTFE     | NONE   | 1   |
| 1  | BODY        | BRASS    | NICKEL | 1   |

|   |          |   |              |
|---|----------|---|--------------|
| -TOLERANCES-<br>UNLESS OTHERWISE SPECIFIED  |          | <b>RENHOTEC</b> <b>RENHOTEC GROUP</b><br><a href="http://www.renhotec.com">www.renhotec.com</a> |              |
| UNLESS OTHERWISE SPECIFIED<br>TOLERANCES FOR MILLIMETERS ARE:<br>0.5 - 8mm ± 0.20mm<br>8 - 30mm ± 0.25mm<br>30 - 120mm ± 0.30mm |          | PART DESCRIPTION:<br>N-TYPE End loounch Bulkhead Jack Receptacle<br>P/N: RHT-614-0146           |              |
| Appd:   | JIM.KING | Date  | 2020. 10. 30 |
| Check:  |          | Scale   | Free         |
| Draw:   | Gavin    | Unit  | MM           |
|   |          | Type  | Z            |
|   |          | Page  | 1/1          |

**Basic Information**

|                         |             |
|-------------------------|-------------|
| <b>Connector Type</b>   | Jack        |
| <b>Fastening Type</b>   | Threaded    |
| <b>Mounting Feature</b> | Edge Mount  |
| <b>Mounting Type</b>    | Panel Mount |
| <b>Number of Ports</b>  | 1           |
| <b>Orientation</b>      | Straight    |

**Mechanical Specification**

|                               |                |
|-------------------------------|----------------|
| <b>Contact Retention</b>      | 6 lbs min.     |
| <b>Coupling Nut Retention</b> | 30 in-lbs. MIN |
| <b>Mating Durability</b>      | ≥ 500 Cycles   |

**Environmental Specification**

|                              |                       |
|------------------------------|-----------------------|
| <b>Corrosion Resistance</b>  | MIL-STD-202 Meth. 101 |
| <b>Ingress Protection</b>    | IP65                  |
| <b>Operating Temperature</b> | -65°C to +165°C       |
| <b>Vibration</b>             | MIL-STD-202 Meth. 204 |

**Electrical Specification**

|  |               |
|--|---------------|
| <b>Dielectric Withstanding Voltage</b> | 2500 V rms    |
| <b>Withstand Voltage</b>               | 1500V RMS Max |

**Material and Finish**

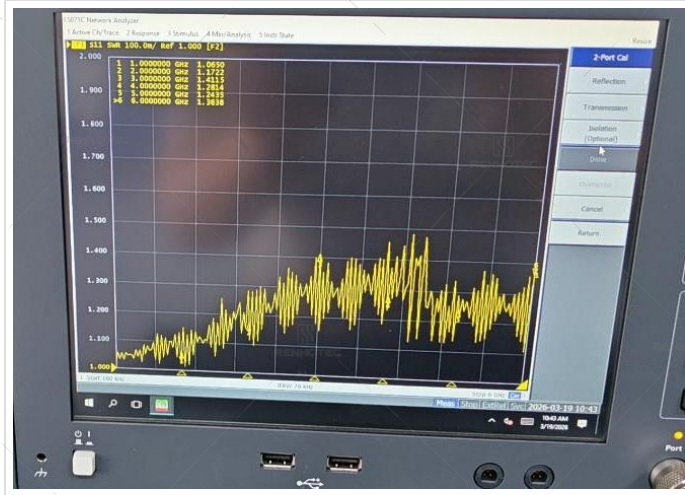
| Component Description | Material     | Finish        |
|-----------------------|--------------|---------------|
| Shell                 | Copper Alloy | Nickel Plated |
| Insulator             | Teflon White |               |
| Contact               | Brass        | Gold Plated   |

**Impedance Testing**

|                  |     |
|------------------|-----|
| <b>Impedance</b> | 50Ω |
|------------------|-----|

### Frequency & VSWR Test Report

|                 |   |
|-----------------|---|
| Frequency Range | DC-11 GHz   |
| VSWR            | R/A type $\leq 1.5$ MAX, Straight type $\leq 1.3$ MAX |



### Contact Resistance Test

|                           |  |
|---------------------------|--|
| Contact Type              | Female Pin                             |
| Center Contact Resistance | $\leq 1.0$ M $\Omega$ (Milliohms Max.) |
| Outer Contact Resistance  | $\leq 0.2$ M $\Omega$ (Milliohms Max.) |



**Working Voltage & Insulation Resistance Test**

|                       |  |
|-----------------------|--|
| Working Voltage       | 1000 V rms                             |
| Insulation Resistance | ≥5 × 10 <sup>3</sup> MΩ (Megohms MIN.) |



**Version History**

| REV | Date      | Revise Contents         | Drafter | Approver |
|-----|-----------|-------------------------|---------|----------|
| A.0 | 2026.6.18 | The initial formulation | Esther  | Joson    |

**Disclaimer**

The information in this specification is subject to change without notice. Please confirm the latest version before use. Technical parameters are for reference only, and sufficient testing and verification should be conducted in actual applications.