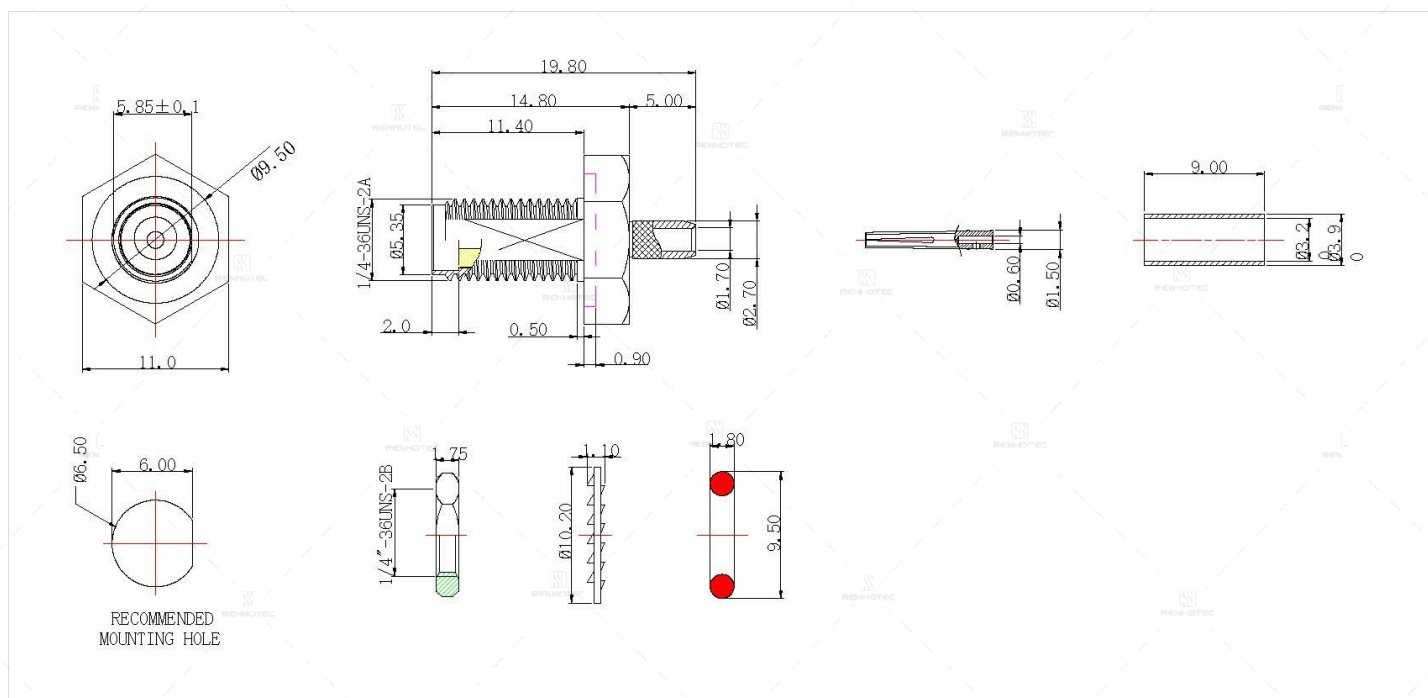


## SMA Connector Straight Female Jack For RG316 Cable 50 Ohm - RHT-612-6017

### Drawing



### Basic Information

|                           |                 |
|---------------------------|-----------------|
| Connector Type            | Jack            |
| Contact Type              | Female Pin      |
| Contact Termination Style | Solder          |
| Fastening Type            | 1/4-36 Threaded |
| Orientation               | Straight        |
| Mounting Type             | Cable Mount     |

### Electrical Specification

|                    |                                                                  |
|--------------------|------------------------------------------------------------------|
| Impedance          | 50 ohm                                                           |
| Frequency Range    | DC-6GHz                                                          |
| VSWR               | 1.5MAX                                                           |
| Operating Voltage  | 500V rms                                                         |
| Contact Resistance | Centre Contact: 6mΩ Max Outer Contact: ≤ 0.2 MΩ (Milliohms Max.) |

## Material and Finish

| Component Description | Material         | Finish        |
|-----------------------|------------------|---------------|
| Shell                 | Brass            | Gold Plated   |
| Insulator             | PTFE             |               |
| Center Contact        | Brass            | Gold Plated   |
| Nut                   | Brass            | Gold Plated   |
| Washer                | IRON             | Gold Plated   |
| Copper Tube           | Brass            | Nickel Plated |
| O-ing                 | Rubber Black/Red |               |

## Environmental Specification

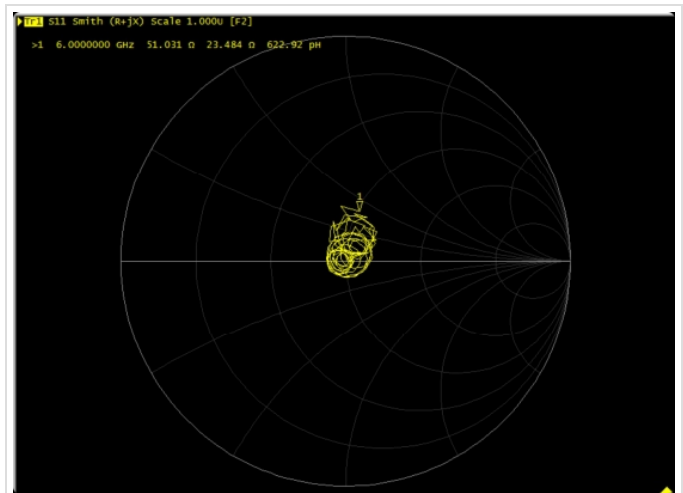
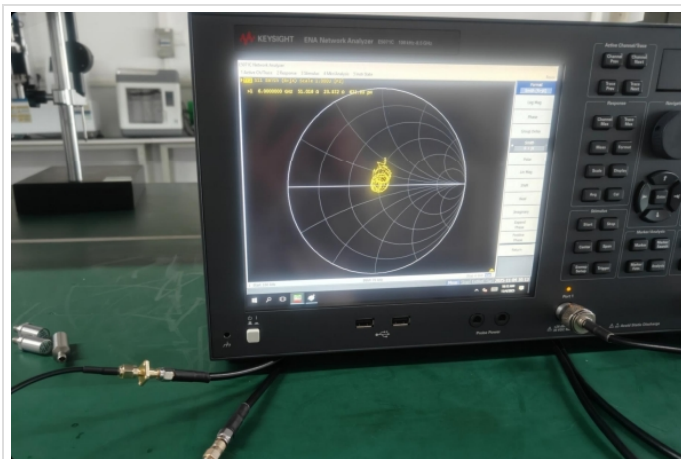
|                          |                 |
|--------------------------|-----------------|
| <b>Temperature Range</b> | -55°C to +155°C |
|--------------------------|-----------------|

## Mechanical Specification

|                          |              |
|--------------------------|--------------|
| <b>Mating Durability</b> | ≥ 500 Cycles |
|--------------------------|--------------|

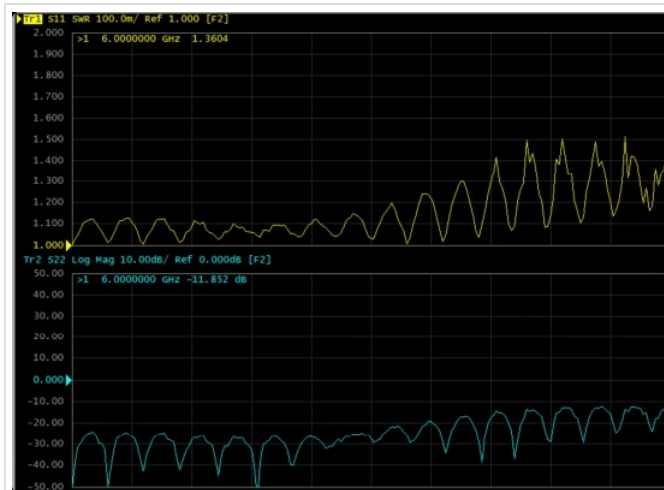
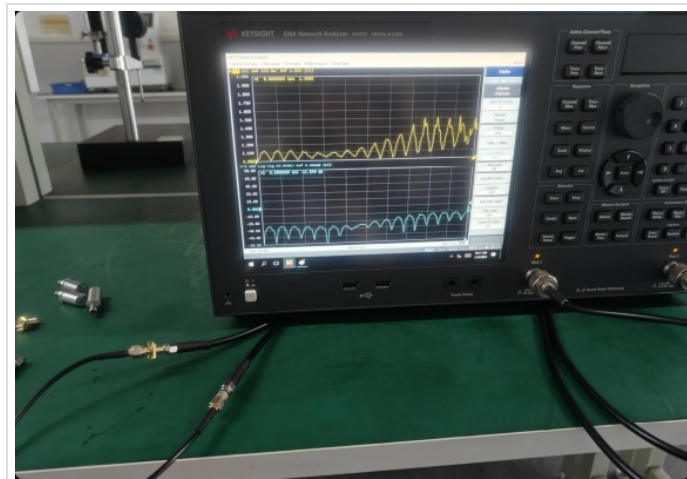
## Impedance Testing

|           |        |
|-----------|--------|
| Impedance | 50 ohm |
|-----------|--------|



## Frequency & VSWR Test Report

|                 |         |
|-----------------|---------|
| Frequency Range | DC-6GHz |
| VSWR            | 1.5MAX  |



## Contact Resistance Test

|                           |                           |
|---------------------------|---------------------------|
| Contact Type              | Male Pin                  |
| Center Contact Resistance | 6 MΩ Max                  |
| Outer Contact Resistance  | ≅ 0.2 MΩ (Milliohms Max.) |
| Contact Termination Style | Solder                    |



Working Voltage & Insulation Resistance Test

|                        |               |
|------------------------|---------------|
| Rated Voltage          | 500V rms      |
| Insultation Resistance | 5000 Ohms min |



Version History

| REV | Date       | Revise Contents         | Drafter  | Approver |
|-----|------------|-------------------------|----------|----------|
| A.0 | 2025.12.17 | The initial formulation | Marcella | 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.