# H2.4-R-SR2-S RF Report

HIROSE ELECTRIC CO.,LTD.

July 2020

Rev.0

RF-20016

### **Outline**



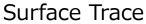
- 1. Feature
- 2. Simulation model
- 3. Electrical performance
- 4. Measurement data



### 1. Feature

- Complies with MIL-STD-348B Standard
- Supports up to 50GHz frequency
- Screw mounting
  - Provides excellent high frequency performance and consistent assembly quality
  - Reusable
  - Reduces mounting complexity
- Flexible PCB thickness
- RoHS compliant



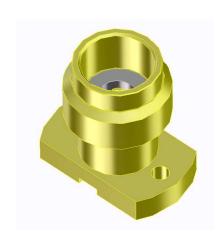




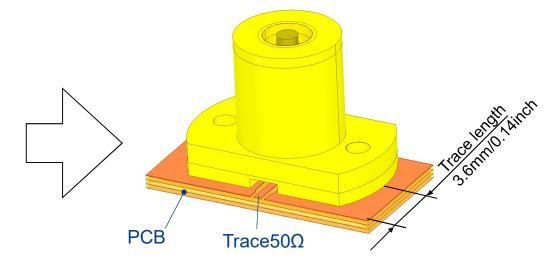


### 2. Simulation model

## s2p file is created by HFSS.



Original model



HFSS simulation model

### Please see the details below:

https://www.hirose.com/product /en/pr/mmwave/

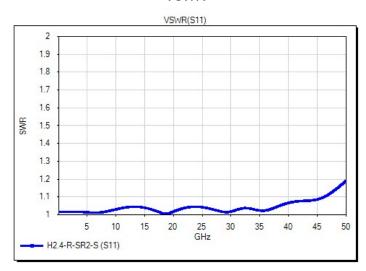
#### Simulation Model PCB layer



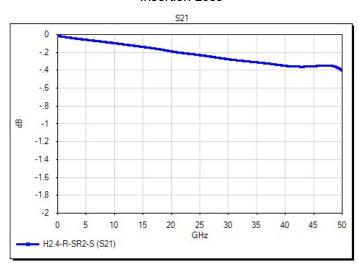


# 3. Electrical performance



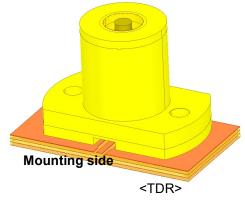


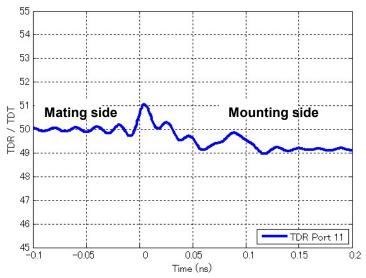
#### <Insertion Loss>



### Simulation result: s2p



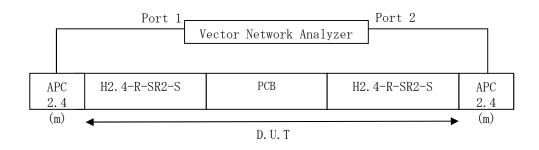


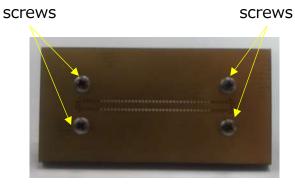




### 4. Measurement data

### **♦** Measurement setup





Back side of PCB

### **VNA** information

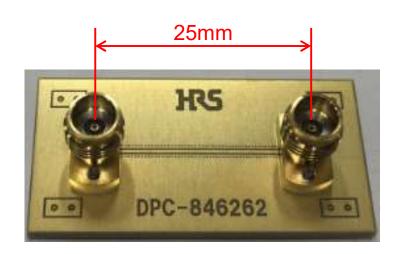
2 port Agilent E8361A PNA

Frequency range: 100MHz – 50GHz

Number of Points: 801 points

IF band: 500Hz





※ Please contact us for detail PCB design. We can provide PCB design notes and HFSS encrypted model.

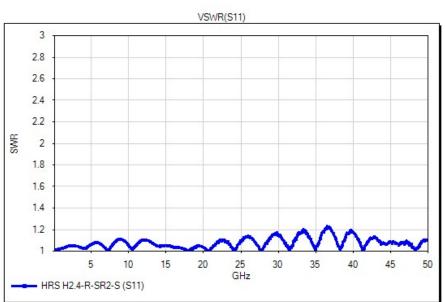


### **Measurement results**

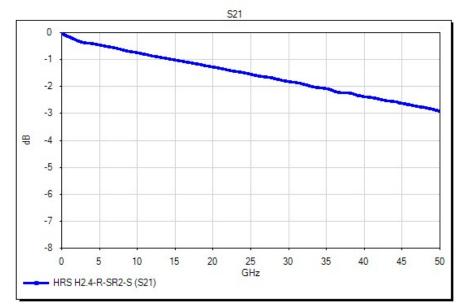


#### Measurement Results

#### < VSWR >



#### <Insertion Loss>





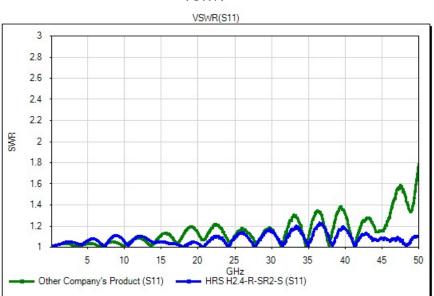
# **Comparisons**

Hirose 2.4mm H2.4-R-SR2-S



#### Measurement results

#### < VSWR >



#### <Insertion Loss>

