

# 2.4mm RF CONNECTOR

Part No. : 50204

## Product Specification

Rev.	ECN	Date	Prepared by	Checked by	Approved by
1	S21223	May 18, 2021	K. Yufu	-	M. Takemoto
0	S21207	May 6, 2021	K. Yufu	-	M. Takemoto

- 1. Scope**

This product specification defines the test conditions and the performances of the 2.4mm RF CONNECTOR ADAPTER FOR PCB(OUTER LAYER).
- 2. Product Name and Parts No.**
  - 2.1 Product Name**

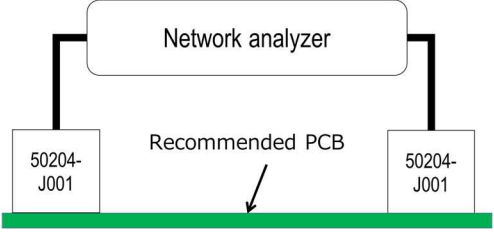
2.4mm RF CONNECTOR ADAPTER FOR PCB(OUTER LAYER)
  - 2.2 Parts No.**

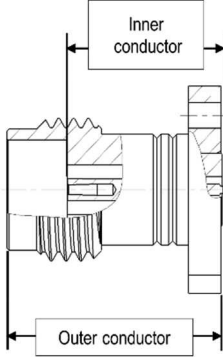
Jack type: 50204-J001
- 3. Storage Conditions**

Storage temperature: 278 to 308K (5°C to 35°C)  
Storage humidity: 30~60% (Non-condensing)
- 4. Test and Performance**
  - Test Condition**

Temperature: 293K to 303K(20°C to 30°C)

## 4.1. Electrical Performance

1. VSWR	
Reference standard:	-
Test conditions:	Measure VSWR as shown in Fig.1 by network analyzer. Frequency: 0.1GHz~50GHz
 <p>Fig. 1</p>	
Pass criteria:	1.5 MAX.

2. Contact resistance	
Reference standard:	-
Test conditions:	Apply 20mV MAX. DC open circuit voltage and 10mA MAX. DC short circuit current. Measure the contact resistance of signal and GROUND at the section shown in Fig.2.
 <p>Fig. 2</p>	
Pass criteria:	Inner contact: 4.0 mΩMAX. Outer contact: 2.5 mΩMAX.

3. Insulation resistance	
Reference standard:	-
Test conditions:	Apply DC 500 V between the inner contact and the ground contact.
Pass criteria:	5000 MΩ MIN.

4. Dielectric withstanding voltage	
Reference standard:	-
Test conditions:	Apply AC 500V(rms) between the neighboring contacts for a minute.
Pass criteria:	No abnormalities such as creeping discharge, flashover, insulator breakdown occur.

## 4.2. Mechanical Performance

1. Durability	
Reference standard:	-
Test conditions:	Repeat mate and unmate to applicable part 500 cycles with 1.65Nm torque wrench.
Pass criteria:	Shall meet all above electrical performance.

## 4.3 Test Sequence and Specimen Quantity

Table.1 Test Sequence and Sample Quantity

Test Item	Test sequence
VSWR	1,6
Contact resistance	2,7
Insulation resistance	3,8
Dielectric withstanding voltage	4,9
Durability	5
Specimen quantity	5

※Numbers indicate test sequences.