

# 2.4mm RF CONNECTOR

Part No. 50201

## Product Specification

0	S21204	May 6, 2021	K. Yufu	-	M. Takemoto
Rev.	ECN	Date	Prepared by	Checked by	Approved by

## 1. Scope

This product specification defines the test conditions and the performances of the 2.4mm RF CONNECTOR CONVERSION ADAPTER.

## 2. Product Name and Parts No.

### 2.1 Product Name

2.4mm RF CONNECTOR CONVERSION ADAPTER

### 2.2 Parts No.

Plug to Plug: 50201-0001

Plug to Jack: 50201-0J01

Jack to Jack: 50201-JJ01

## 3. Storage Conditions

Storage temperature: 278 to 308K (5°C to 35°C)

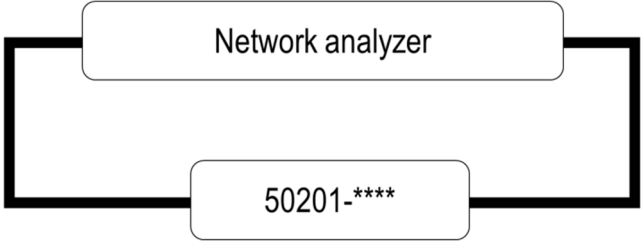
Storage humidity: 30~60% (Non-condensing)

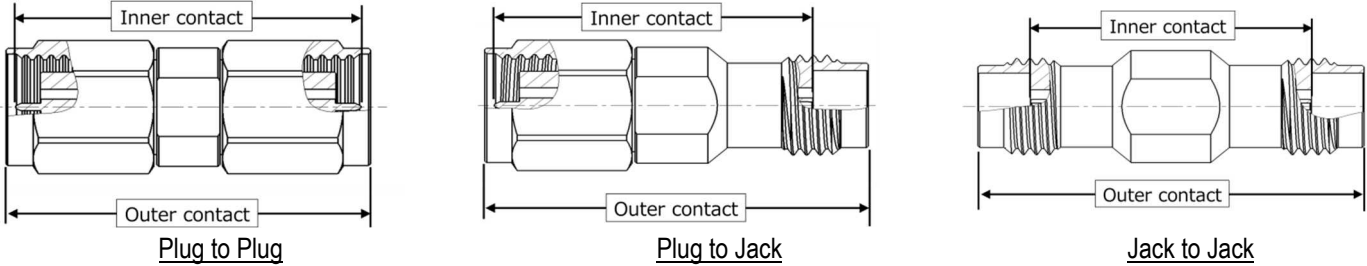
## 4. Test and Performance

### 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
	
Fig. 1	
Pass criteria:	1.2 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.
	
Fig. 2	
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.