

MHF[®] 4(4L) SMA ADAPTER

For Plug & Receptacle

Part No. Plug:90449-001 Receptacle:90449-002

Product Specification

Qualification Test Report No. TR-16127

1	S22256	June 17, 2022	K.Motomura	K.Yufu	Y.Hashimoto
0	S16714	November 4, 2016	K. Yufu		K.Yotsutani
Rev.	ECN	Date	Prepared by	Checked by	Approved by

1. Scope

This Product Specification defines the test conditions and the performances of the MHF4 SMA ADAPTER for Plug & Receptacle.

2. Product Name and Parts No.

2.1 Product Name

MHF 4(4L) SMA ADAPTER for Plug

MHF 4(4L) SMA ADAPTER for Receptacle

2.2 Parts No.

MHF 4(4L) SMA ADAPTER for Plug: 90449-001

MHF 4(4L) SMA ADAPTER for Receptacle: 90449-002

3. Rating

3.1 Operating Conditions

Operating temperature: 233 to 358K(-40°C to 85°C) (Containing temperature rise by current)

4. Test and Performance

Test Condition

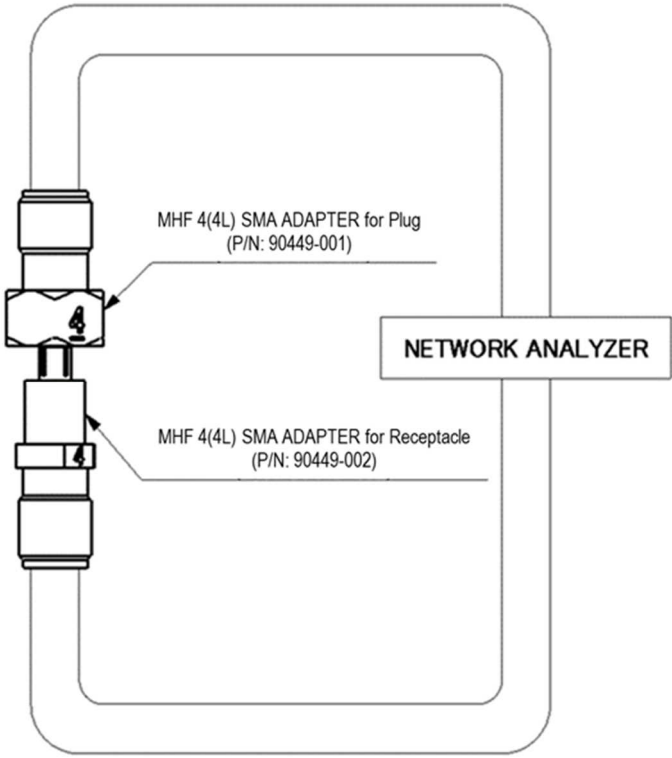
Unless otherwise specified, all tests and measurements shall be performed under the following conditions in accordance with MIL-STD-202.

Temperature: 288K to 308K(15°C to 35°C)

Pressure: 866hPa to 1066hPa(650mmHg to 800mmHg)

Relative humidity: 45 to 75% R.H.

4.1. Electrical Performance

1. VSWR	
Reference standard:	-
Test conditions:	Measure the VSWR as shown in Fig.1 by the network analyzer.
	
Fig.1	
Pass criteria:	0.1~3.0GHz: 1.30 MAX. 3.0~6.0GHz: 1.50 MAX. 6.0~12.0GHz: 1.60 MAX.

2. Insulation resistance	
Reference standard:	MIL-STD-202-302, Test condition
Test conditions:	Apply DC 100 V between the inner contact and the ground contact in accordance.
Pass criteria:	Initial: 500 MΩ MIN.

3. Dielectric withstanding voltage	
Reference standard:	MIL-STD-202-301
Test conditions:	Apply AC 200 V rms between the inner contact and the ground contact for a minute in accordance
Pass criteria:	No abnormalities such as creeping discharge, flashover, insulator breakdown occur.

4.2. Mechanical Performance

1. Durability	
Reference standard:	-
Test conditions:	Set adaptor to push and pulling jig, and mate and un-mate at 25 ± 3 mm/minute speed horizontal to mating axis. [cycle]
90449-001:	MHF 4(4L) Plug 3,000 cycles
90449-002:	MHF4(4L) Receptacle 500cycles
Pass criteria:	VSWR: Shall meet 4.1.1 Insulation resistance: Shall meet 4.1.2 Dielectric withstanding voltage: Shall meet 4.2.1

4.3 Test Sequence and Specimen Quantity

Table.1 Test Sequence and Sample Quantity

Test Item	Test sequence
VSWR	1,5
Insulation resistance	2,6
Dielectric withstanding voltage	3,7
Durability	4
Sample QTY.	3pcs

※Numbers indicate test sequences.

5. Recommended Metal Mask

N / A.

6. Precautions for Handling this Productions.

Refer to instruction manual HIM-22011 for precautions in handling this product.