

Detachable High Cycle Adapter Ass'y for MHF[®] 4(4L) Receptacle

Part No. 90684-0001, 90683-0001

Product Specification

Qualification Test Report No. TR-14101

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Rev.	ECN	Date	Prepared by	Checked by	Approved by

1. Scope

This product specification defines the test conditions and the performances of the Detachable High Cycle Adapter Ass'y for MHF 4(4L) Receptacle

2. Product Name and Parts No.

2.1 Product Name

Detachable High Cycle Adapter Ass'y for MHF 4(4L) Receptacle

2.2 Parts No.

MHF SERIES HIGH CYCLE SMA ADAPTER BASE UNIT: 90684-0001

MHF 4(4L) HIGH CYCLE ATTACHMENT: 90683-0001

3. Rating

3.1 Operating Conditions

Operating temperature: 243~343K(-30°C~70°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 1066 hPa (650mmHg to 800mmHg)

Relative humidity: 45 to 75% R.H.

4.1. Electrical Performance**1. VSWR**

Reference standard: -

Test conditions: Measure the VSWR at the stroke of 31.65mm as shown in Fig.1 by the network analyzer.

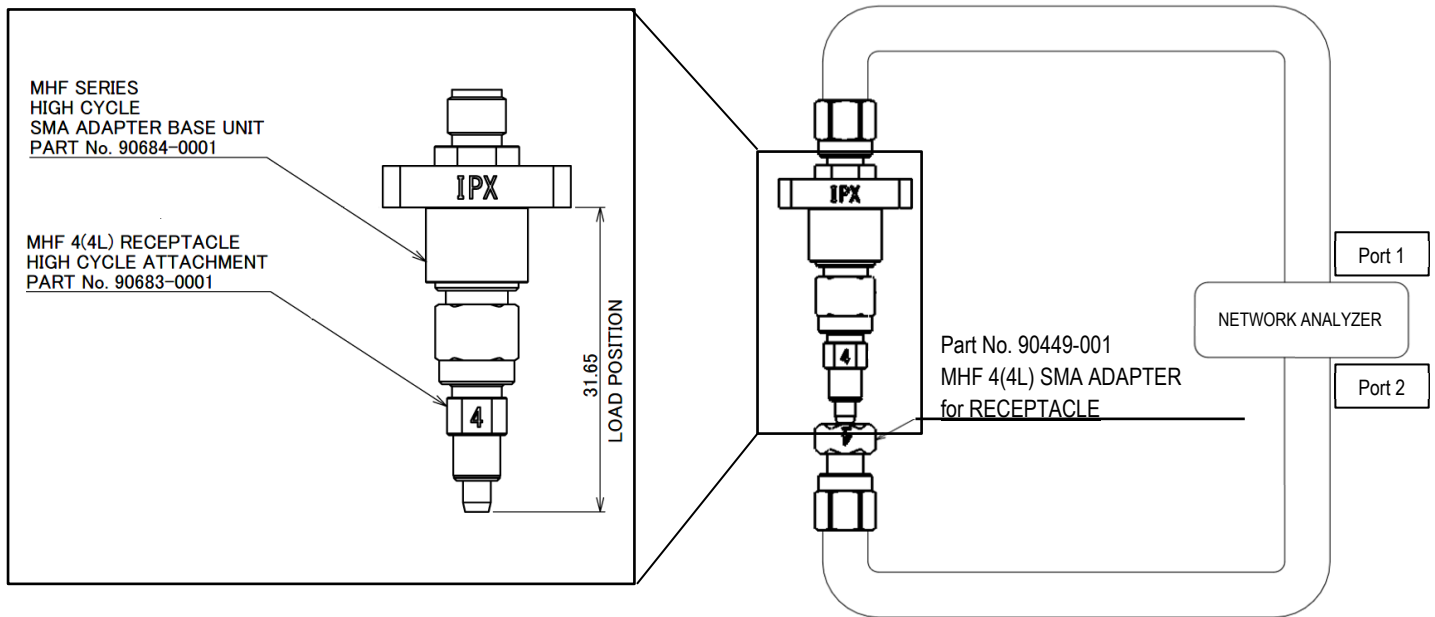


Fig. 1

Pass criteria: 0.1~6.0GHz: 1.20 MAX.
6.0~12.0GHz: 1.35 MAX.

2. Insulation resistance

Reference standard: MIL-STD-202-302, Test condition A.

Test conditions: Apply DC 100 V between the inner contact and the ground contact.

Pass criteria: 500 MΩ MIN.

3. Dielectric withstanding voltage

Reference standard: MIL-STD-202-301

Test conditions: Apply AC 250 V rms between the inner contact and the ground contact for a minute.

Pass criteria: No abnormalities such as creeping discharge, flashover, and insulator breakdown occur.

4.2. Mechanical Performance**1. Durability**

Reference standard: -

Test conditions: Set the detachable high cycle probe ass'y to the push and pulling machine.
Mate and unmate at speed of 25±3mm/minute. Mate and unamte horizontally to the mating axis.

90683-0001: 10,000 cycles

90684-0001: 200,000 cycles

Pass criteria: VSWR: Shall meet 4.1.1.

Insulation resistance: 4.1.2.

Dielectric withstanding voltage: Shall meet: 4.1.3

Appearance: No abnormality adversely affecting the performance shall occur.

4.5 Test Sequence and Specimen Quantity

Table.1 Test Sequence and Sample Quantity

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

* Numbers indicate test sequences.

5. Recommended Metal Mask

N / A.

6. Precautions for Handling Adapters

See HIM-14021.