

MHF® 4(4L) Receptacle High Cycle N45 C Adapter

Part No. 90576-0001,90577-****

Product Specification

Qualification Test Report No. TR-14094

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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 MHF 4(4L) Receptacle High Cycle N45 C Adapter.

2. Product Name and Parts No.

2.1 Product Name

MHF 4(4L) Receptacle High Cycle N45 C Adapter

2.2 Parts No.

◆ Inspection SMA adapter

Product name: MHF 4(4L) Receptacle High Cycle N45 C Adapter
Parts No.: 90576-0001

◆ Cable socket

Product name: MHF SERIES N45 C TO SMA ADAPTER CABLE
Parts No.: 90577-0100, 90577-0200, 90577-0350, 90577-0750
90577-J100, 90577-J150, 90577-J350

3. Rating

3.1 Operating Condition

Operating Temperature: 243~343K(-30°C~70°C) (Containing temperature rise by current)
Operating Humidity: 85% max.

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~308K (15°C~35°C)
Pressure: 866hPa~1066hPa (650mmHg~800mmHg)
Relative Humidity: 45~75%R.H.

4.1. Electrical Characteristic

1. VSWR

Reference standard: -

Test Conditions: Measure VSWR at maximum stroke of 14.45mm and at minimum stroke of 14.85mm as shown in Fig.1.

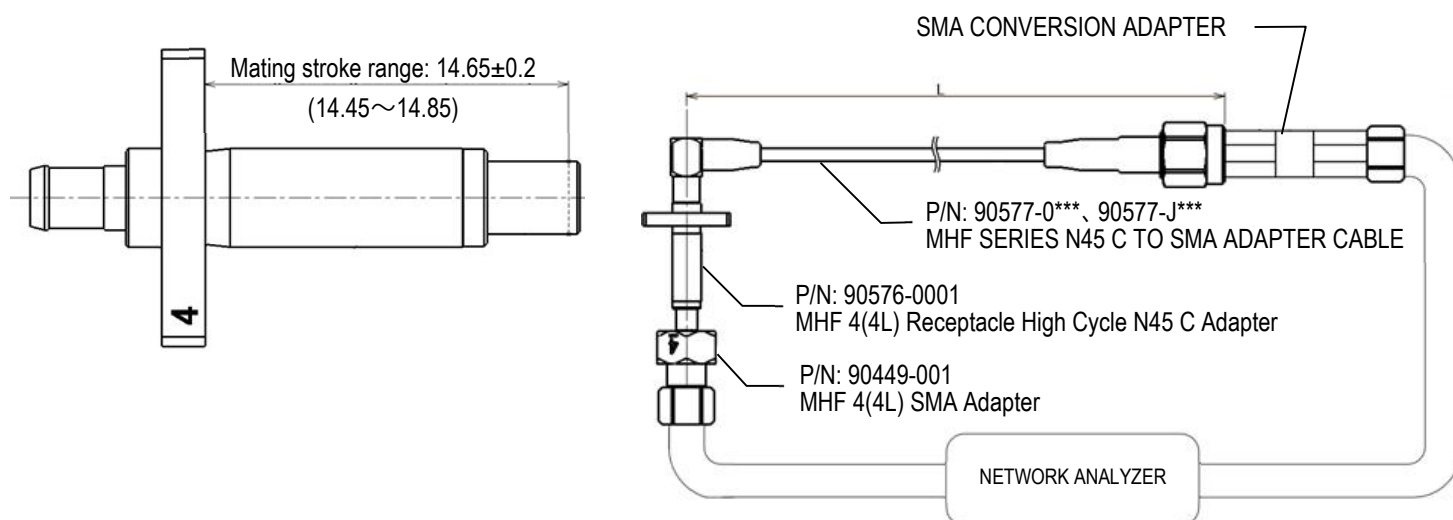


Fig. 1

Pass criteria: [Mated with 90577-0100, -0200, -0350, -0750]

300kHz~3GHz:	1.30 MAX.
3~6GHz:	1.50 MAX.
6~9GHz:	1.60 MAX.
9~12GHz:	2.30 MAX.

[Mated with 90577-J100, -J150, -J350]

300kHz~3GHz:	1.50 MAX.
3~6GHz:	1.80 MAX.
6~9GHz:	2.10 MAX.
9~12GHz:	2.80 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 300 V rms between the inner contact and the ground contact for a minute

Pass criteria: No creeping discharge, no flashover, and no Insulator breakdown

4.2. Mechanical Performance

1. Durability

Reference standard: -

Test Conditions: Set adaptor to push and pulling jig, and conduct 10,000 times mating and un-mating test at 25±3mm/minute speed horizontal to mating axis.

Pass criteria:

- VSWR: Shall meet 4.1.1.
- Insulation Resistance: Shall meet 4.1.2.
- Dielectric withstanding voltage: Shall meet 4.1.3.

4.3. Test Sequence and Sample 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 quantity	3pcs

* Numbers indicate test sequences.

5. Recommended Metal Mask

N / A.

6. Precautions for Handling Adapters

See HIM-14020.