

MHF®-SW23 RECEPTACLE
High Cycle SMA Adapter

Part No. 90604-0001

Product Specification

Qualification Test Report No. TR-14106

2	S22050	February 10, 2022	K.Motomura	K.Yufu	Y.Hashimoto
1	S21534	October 26, 2021	K.Motomura	K.Yufu	M.Takemoto
0	S14369	October 3, 2014	H.Tagomori	T.Tagawa	T.Takano
Rev.	ECN	Date	Prepared by	Checked by	Approved by

1. Scope

This Product Specification defines the test conditions and the performances of the MHF-SW23 RECEPTACLE High Cycle SMA Adapter.

2. Product Name and Parts No.

2.1 Product Name

MHF-SW23 RECEPTACLE High Cycle SMA Adapter

2.2 Parts No.

◆ Inspection High Cycle Adapter

Product name : MHF-SW23 RECEPTACLE HIGH CYCLE SMA ADAPTER

Parts No. : 90604-0001

3. Rating

3.1 Operating Condition

Operating Temperature : 233~358K(-40℃~85℃)
(Containing temperature rise by current)

4. Test and Performance

Test Condition

This initial test is equal to it's at shipping condition and unless otherwise specified, all tests and measurements shall be performed under the following conditions in accordance with MIL-STD-202.

Temperature	... 288K~308K (15℃~35℃)
Pressure	... 866hPa~1066hPa (650mmHg~800mmHg)
Relative Humidity	... 45~75%R.H.

4.1. Electrical Characteristic**1. VSWR (Voltage Standing Wave Ratio)**

Reference standard: -

Test conditions: Mate as shown in figure 1. the loads shall be within 6 to 10N. Measure VSWR as shown in figure 2.
Frequency: 300kHz ~ 6.0GHzPass criteria: 1.4 MAX. (300kHz~3GHz)
1.6MAX. (3GHz~6GHz)
2.0MAX. (6GHz~11GHz)**2. Insulation resistance**

Reference standard: MIL-STD-202 , Method 302, Condition A

Test conditions: DC100V is applied and measured between a center contact and ground contact.

Pass criteria: Initial: 1000MΩ MIN.

3. Dielectric withstanding voltage

Reference standard: MIL-STD-202 , Method 301

Test conditions: Apply AC100V between the center contact and the ground contact for a minute.

Pass criteria: Without damage such as arcing or breakdown etc.

4.2. Mechanical Performance

1. Durability	
Reference standard:	-
Test conditions:	MHF-SW23 and MHF-SW23 RECEPTACLE High Cycle SMA Adapter. shall be mated and un-mated for 10,000 cycles along the mating axis. MHF-SW23 shall be exchanged to an unmated new one at every 100th cycles, which is guaranteed for MHF-SW23.
Pass criteria:	[VSWR] Shall meet 4.1.1. [Insulation resistance] Shall meet 4.1.2. [Dielectric withstanding voltage] Shall meet 4.1.3. [Appearance] No abnormality adversely affecting the performance shall occur.

4.3. Test Sequence and Sample Quantity

Table 1 Test Sequence

Test Item	Test sequence
VSWR	1,5
Insulation Resistance	2,6
D.W Voltage	3,7
Durability	4
Sample QTY.	3 pcs.

5. Measuring method

5.1 Measuring method of VSWR

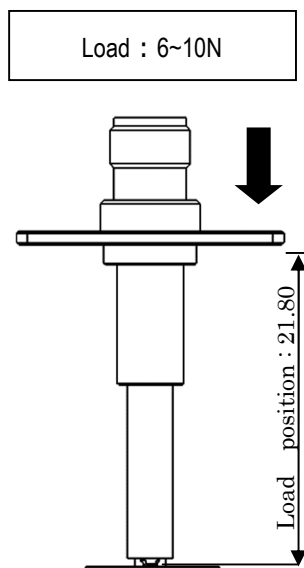


Fig.1

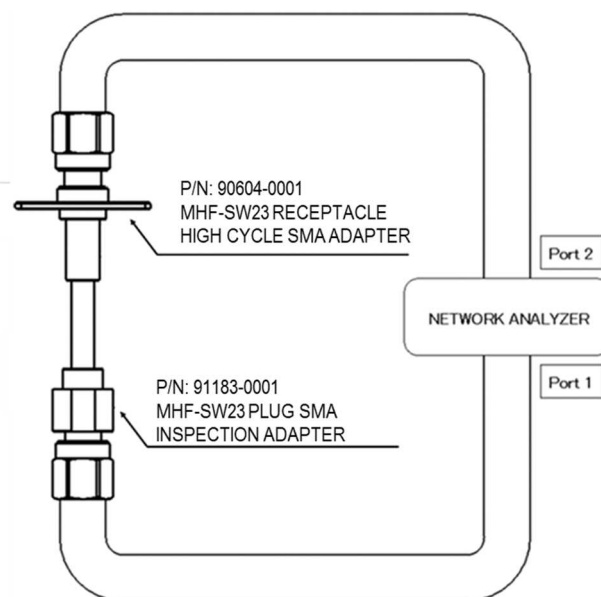


Fig.2