

MHF®-SW23 RECEPTACLE HIGH CYCLE F SMA ADAPTER

Part No. 90605-0001

Product Specification

Qualification Test Report No. TR-16064

2	S22051	February 10, 2022	K.Motomura	K.Yufu	Y.Hashimoto
1	S21538	October 27, 2021	K.Motomura	K.Yufu	M.Takemoto
0	S16396	June 16, 2016	K.Tanaka	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 MHF-SW23 RECEPTACLE HIGH CYCLE F SMA ADAPTER .

2. / Product Name and Parts No.**2.1 Product Name**

MHF-SW23 RECEPTACLE HIGH CYCLE F SMA ADAPTER

2.2 Parts No.

P/N : 90605-0001

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 Performance**1. VSWR (Voltage Standing Wave Ratio)**

Reference standard: -

Test conditions: Measure the VSWR as Fig.2 at stroke of 23.50~25.20mm as shown in Fig.1.
Frequency: 300kHz ~ 11.0GHzPass criteria: 1.5 MAX. (300kHz~3GHz)
1.7 MAX. (3GHz~6GHz)
2.1 MAX. (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 Adapter. shall be mated and un-mated for 200,000 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 and Sample Quantity

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

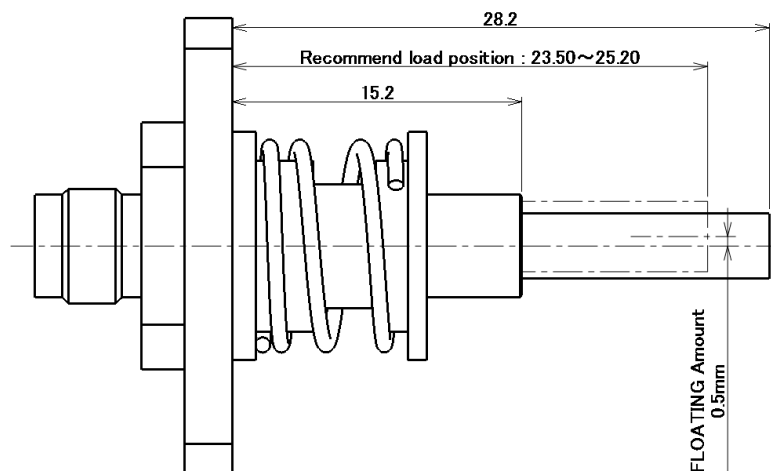


Fig.1

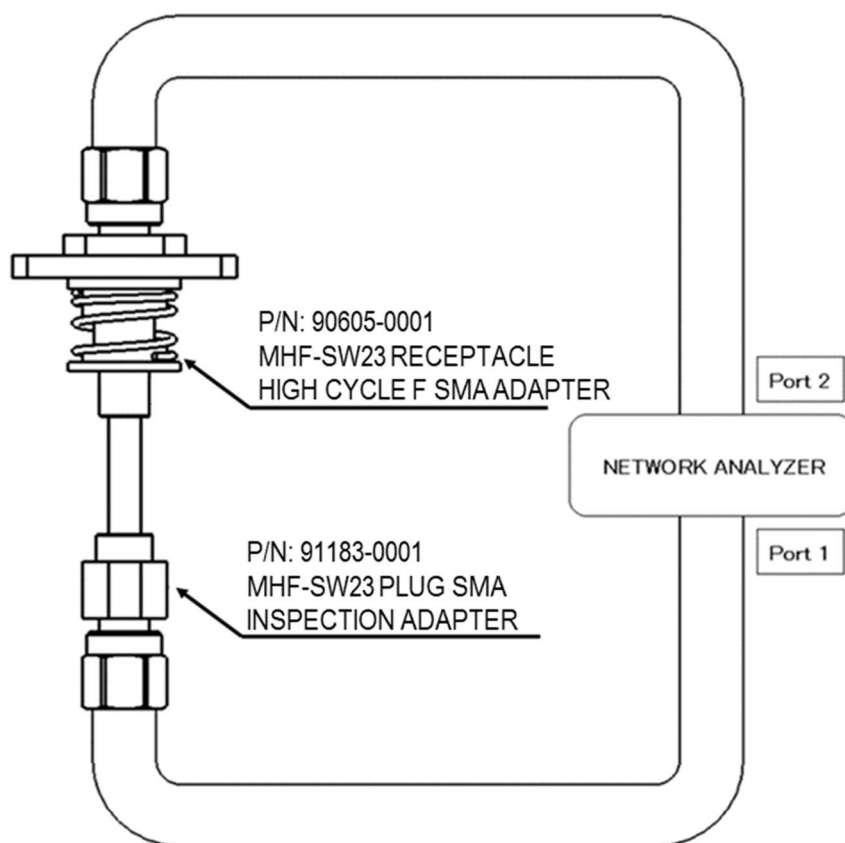


Fig.2