

MHF® 5 SMA ADAPTER FOR PLUG AND RECEPTACLE

Part No. PLUG: 90543-0001 RECEPTACLE: 90543-0002

Product Specification

Qualification Test Report No. TR-20037

1	S20498	September 14, 2020	J.Cao	K.Yufu	M.Takemoto
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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 5 SMA ADAPTER FOR PLUG AND RECEPTACLE

2. Product Name and Parts No.

- (1) MHF 5 SMA ADAPTER FOR PLUG (Part No.90543-0001)
- (2) MHF 5 SMA ADAPTER FOR RECEPTACLE (Part No.90543-0002)

3. Rating

Applicable Cable

Operating Condition

Operating Temperature : 233~358K(-40°C~85°C)

(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 G.

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

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

Relative humidity: 45 to 75% R.H.

1. VSWR

Test conditions: Measure the VSWR as shown in Fig.1 by the network analyzer.



1.5MAX. (3GHz~6GHz)

Reference standard: MIL-STD-202 G, Method 302

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

Pass criteria:	500MΩ MIN.
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Reference standard: MIL-STD-202 G, Method 301

Test conditions: Apply AC 200 V rms between the inner contact and the ground contact for a minute.

Pass criteria:	No creeping discharge, flashover, no insulator breakdown shall occur.
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[illegible]

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.

【Mating connector】	【cycle】
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
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95	95
96	96
97	97
98	98
99	99
100	100

90543-0001 : MHF 5 PLUG	3,000 cycles
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Pass criteria:	Meet VSWR spec(Refer to 4.1.1)
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Meet Insulation resistance spec(Refer to 4.1.2)

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
D. W. Voltage	3,7
Durability	4
Sample QTY.	3 pcs.

※Numbers indicate test sequences.