Preliminary Specification of COAXIAL CONNECTOR
Preliminary SPEC No. : NMM04-PU0082D
Part Number : MM206624

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Checked by: T. Kuriyama
Date: 30/May./2018

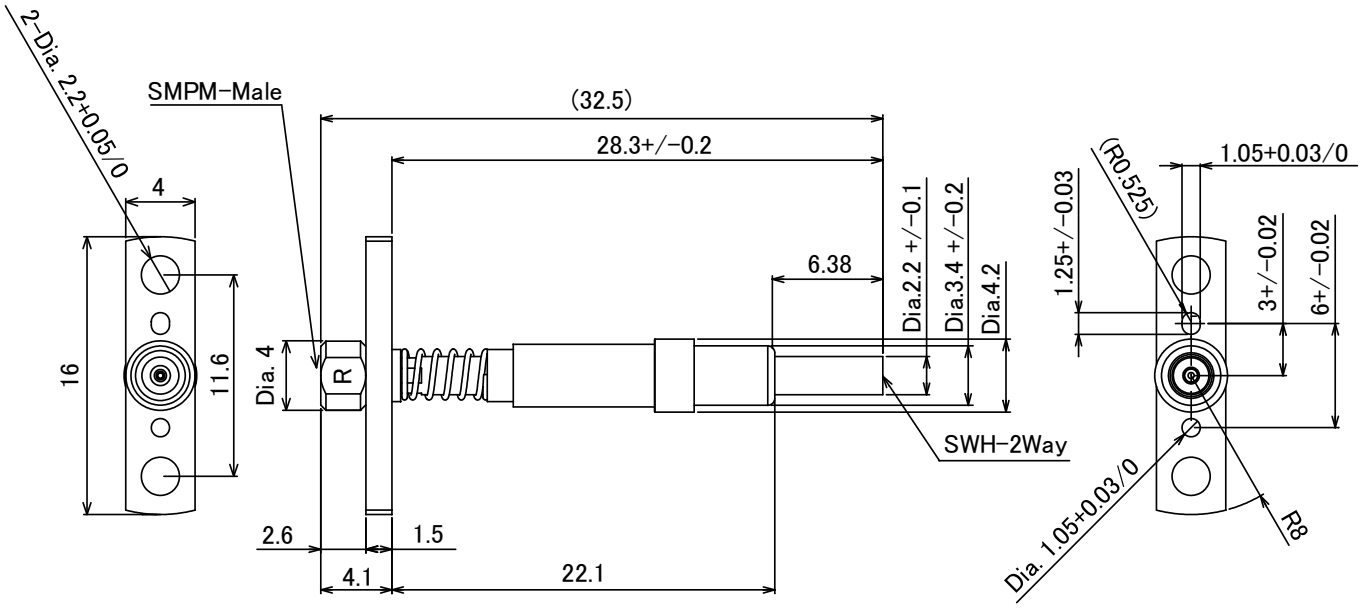
SPECIFICATION

Revised A: 5/Jun./'18 TD B:13/Dec./'19 IU C:3/Feb/'22MS D:2/Dec./25 KA

1. MECHANICAL

D>A>

Automatic measurement probe for SWH-2Way to measure RF side performance.
MM126527 and MM126518 are used as calibration adapter.
SOP of this probe setting in the fixture is VG19-SOP-MM005.



Scale: Free
Tolerance Unless Otherwise Specified: +/- 0.5
Unit: mm

Figure 1. Construction

2. RATING:

Item	Specification
Voltage Rating	30Vr.m.s. maximum
C>B> Nominal Frequency Range	DC to 12GHz
Nominal Impedance	50Ω
B> Temperature Rating	25℃ +/- 15℃
Insulation Resistance	500 MΩ minimum
D> Withstanding Voltage	No evidence of break down in AC200Vr.m.s, 1minute
Initial Contact Resistance (without conductor resistance)	70mΩmax.
D>C>B> Voltage Standing Wave Ratio (V.S.W.R.) (Measured with MM126518)	1.4 max. (DC to 3GHz) 1.6 max. (3GHz to 6GHz) 2.1 max. (6GHz to 12GHz)
D>C>B> Insertion loss (Measured with MM126518)	0.4 dB max. (DC to 3GHz) 0.7 dB max. (3GHz to 6GHz) 1.2 dB max. (6GHz to 9GHz) 1.4 dB max. (9GHz to 12GHz)
B> Durability	1M cycles

3. USE THIS PRODUCT

C>

3.1 Attach to fixture.

The probe must be attached to fixture at the two screw holes in probe flange. (Figure 2)

A>

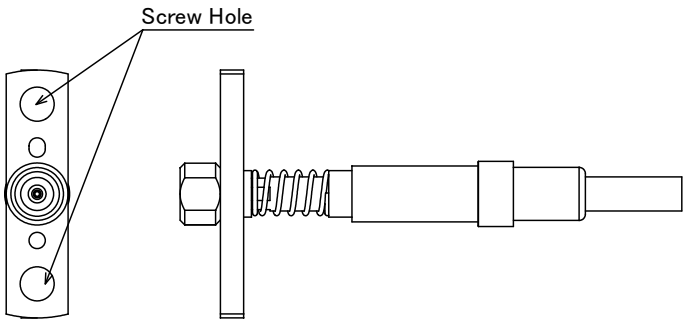


Figure 2. Screw hole

C>

3.2 The tolerance of position against SWH-2Way type receptacle.

3.2.1 MM206624 has a centering function by its design, 0.4(Typical)mm is permitted against the hole center of SWH-2Way type receptacle.

Please avoid needless force to SMPM interface when MM206624 is disengaged from SWH-2Way type receptacle and comes back to its original position.

To avoid the needless force, please use extension cable assembly MXHQ87SN3000/MXHQ87SM3000 (Figure 3/Figure4)

Centering function 0.4(Typical)mm may not be permitted against the hole center of SWH-2WAY type receptacles, when MM206624 is affected by the needless force.

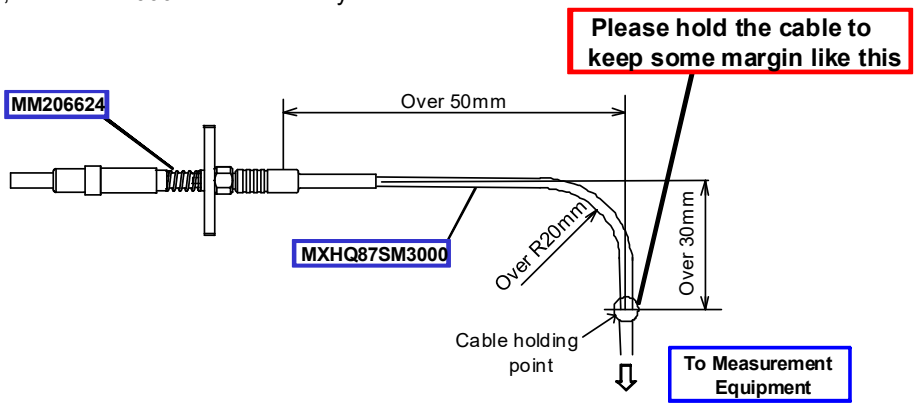


Figure.3 Instruction of MXHQ87SM3000

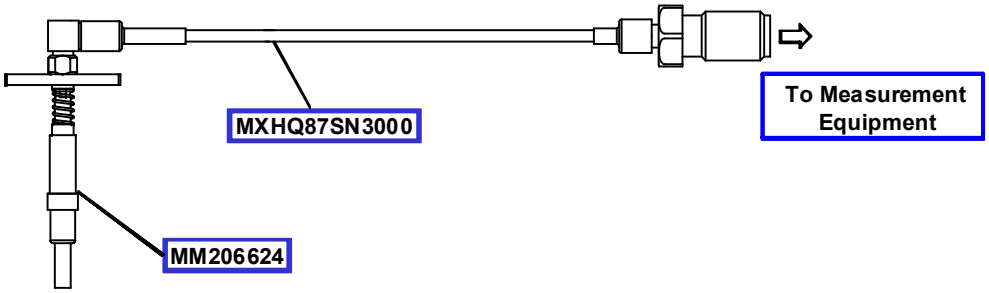


Figure.4 Instruction of MXHQ87SN3000

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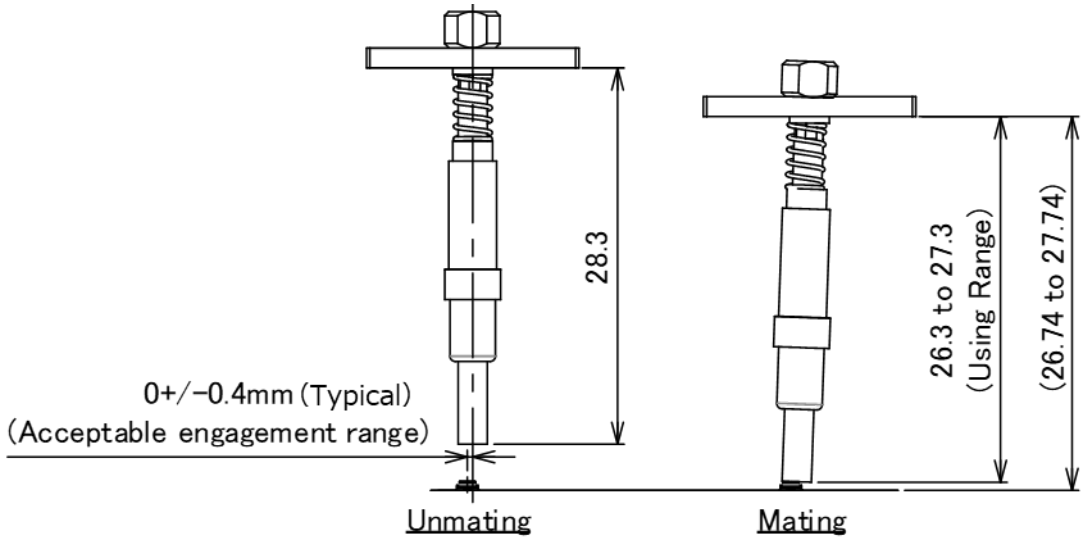
3.2.2 To get the 10dB or higher isolation (up to 12GHz), the engagement strokes from the bottom surface of flange to the tip of probe is 26.3mm to 27.3mm. (Figure 5)



UNIT: mm

Figure.5 Acceptable engagement range to SWH-2WAY

3.3 The slant angle tolerance of probe against SWH-2Way (Figure 6)
To have the stable measurement, slant angle of MM206624 must be within 0+/-2degree.

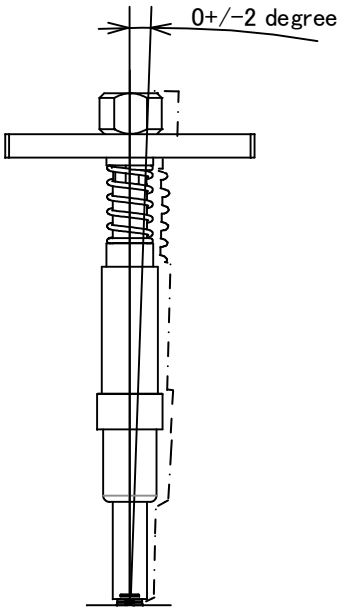


Figure.6 Probe Shape Operation Manual for Auto Measurement probe (MM206624)

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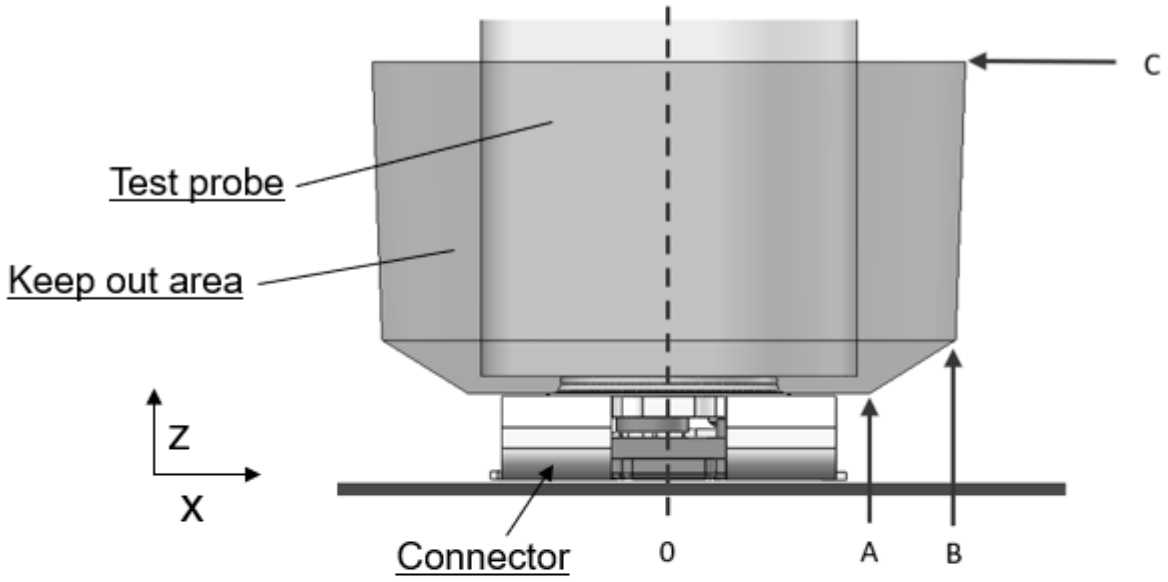
4 Keep out area of test probe

Following is keep out area of test probe tip. Please do not put any parts or devices in that area in order to ensure proper alignment.



Keep out coordinates from connector center

	x	z
A	1.16	0.36
B	1.57	0.60
C	1.62	2.00

UNIT: mm

Figure.7 Keep out area of test probe