Preliminary Specification of COAXIAL CONNECTOR
Preliminary SPEC No. : NMM04-PT0012G
Part Number : MM126715

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Checked by M. Atokawa
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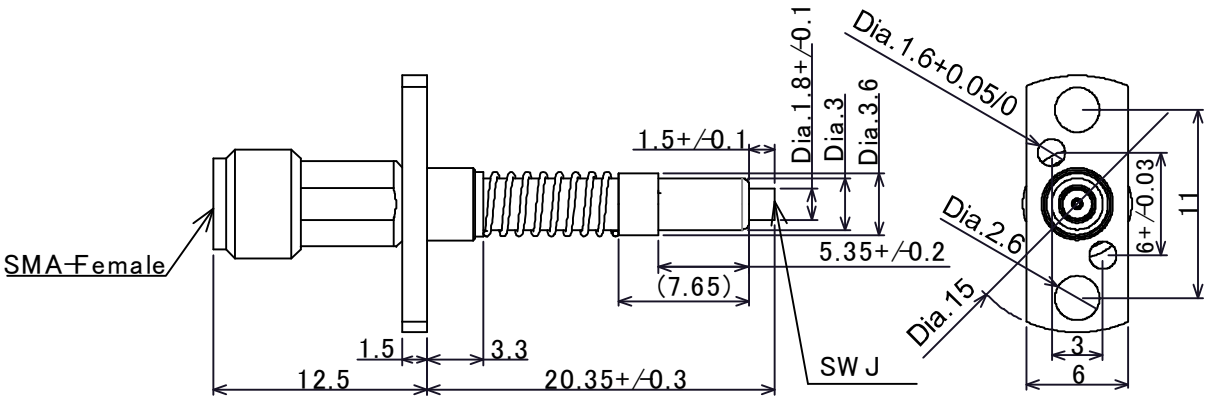
SPECIFICATION

Revised A: 20/Oct/'14 OM B: 12/Dec/'14 OM C: 26/Apr./'16 TD D: 26/ Mar. /'20 MM
E: 22/Jun./'21 MS. F: 12/Dec./'24 YM G: 19/Nov./'25 SN.

1. MECHANICAL

G>E>C>
Automatic measurement probe for SWJ
MM126714 and MM126712 are used as calibration adapter.
SOP of this probe setting in the fixture is VG16-OT-MM025.
D> A>



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

Figure 1 Construction

2. RATING:

Item	Specification
Voltage Rating	30Vr.m.s. maximum
F> Nominal Frequency Range	DC to 9GHz
Nominal Impedance	50Ω
E> Temperature Rating	25°C +/- 15°C
Insulation Resistance	500 MΩ minimum
Withstanding Voltage	No evidence of break down in AC200Vr.m.s, 1minute
Initial Contact Resistance (without conductor resistance)	70mΩ max.
F> B> Voltage Standing Wave Ratio (V.S.W.R.)	1.5 max. (DC to 3GHz) 2 max. (3GHz to 6GHz) 2 max. (6GHz to 9GHz)
F> B> Insertion loss	0.6dB max. (DC to 3GHz) 1.2dB max. (3GHz to 6GHz) 1.2dB max. (6GHz to 9GHz)
B> Durability	1M cycles

3. USE THIS PRODUCTS

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3.1 Attach to fixture

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

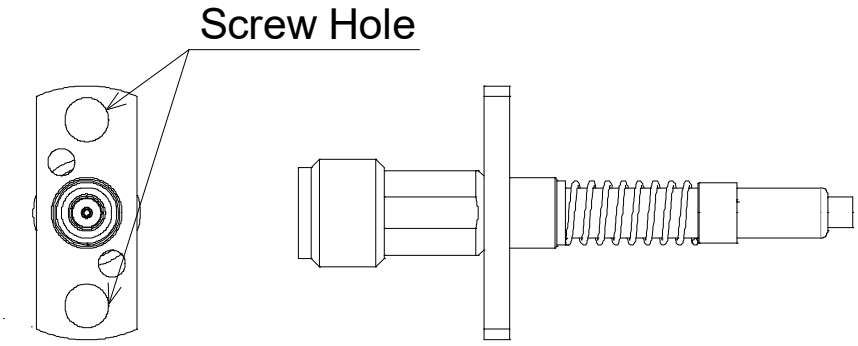

Figure.2 Screw hole

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3.2 The tolerance of position against SWJ type receptacle

3.2.1 MM126715 has the centering function by its design, +/-0.4(Typical)mm is permitted against the hole center of SWJ type receptacle.
Please avoid needless force to SMA interface when MM126715 is disengaged from SWJ type receptacle and comes back to its original position.
To avoid the needless force, please use extension cable assembly, MXHQ87HR3000 (Figure 3).
Centering function +/-0.4(Typical)mm may not be permitted against the hole center of SWJ type receptacle, when MM126715 is affected by the needless force.

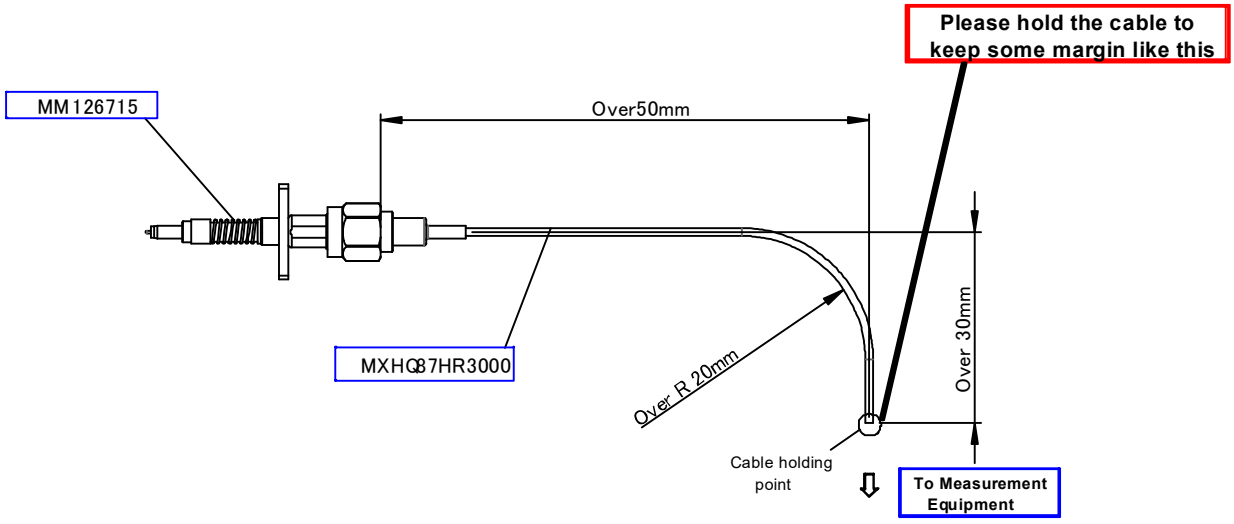

Figure.3 Instruction of MXHQ87HR3000

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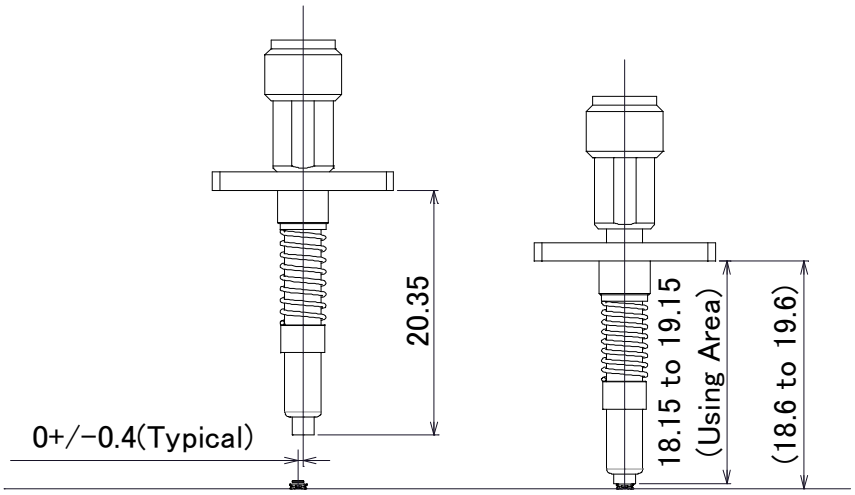
3.2.2

To get the 10dB or higher isolation (up to 9GHz), the engagement strokes from the bottom surface of flange to the tip of probe is 18.15mm to 19.15mm. (Figure 4)



Unit:mm

Figure.4 Acceptable engagement range to SWJ

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3.3 The slant angle tolerance of probe against SWJ type receptacle. (Figure 5)

To have the stable measurement, slant angle of MM126715 must be within 0+/-2degree.

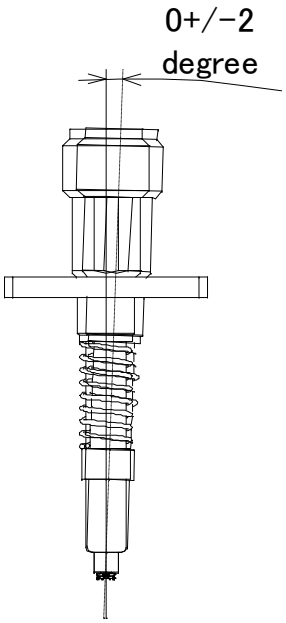

Figure.5 Probe Shape Operation Manual for Auto Measurement probe (MM126715)

4. Keep out area of test probe

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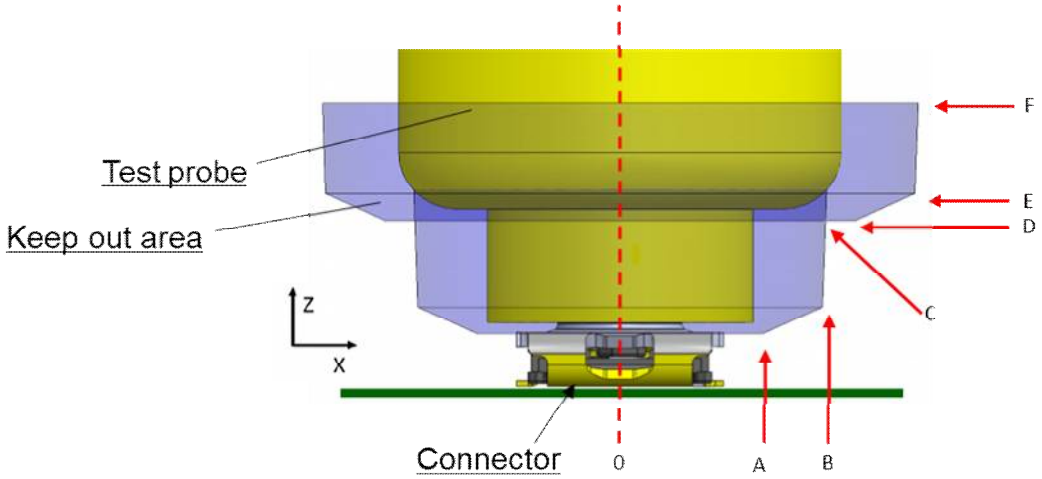
Following is keep out area of test probe tip. Please do not put any parts or devices in that area in order to ensure proper alignment.



Keep out coordinates from connector center

	x	z
A	0.96	0.37
B	1.37	0.56
C	1.39	1.17
D	1.59	1.17
E	2.00	1.36
F	2.02	2.00

Unit: mm

Figure.6. Keep out area of test probe