Preliminary Specification of COAXIAL CONNECTOR
Preliminary SPEC No. : NMM04-PU0024D
Part Number : MM126515

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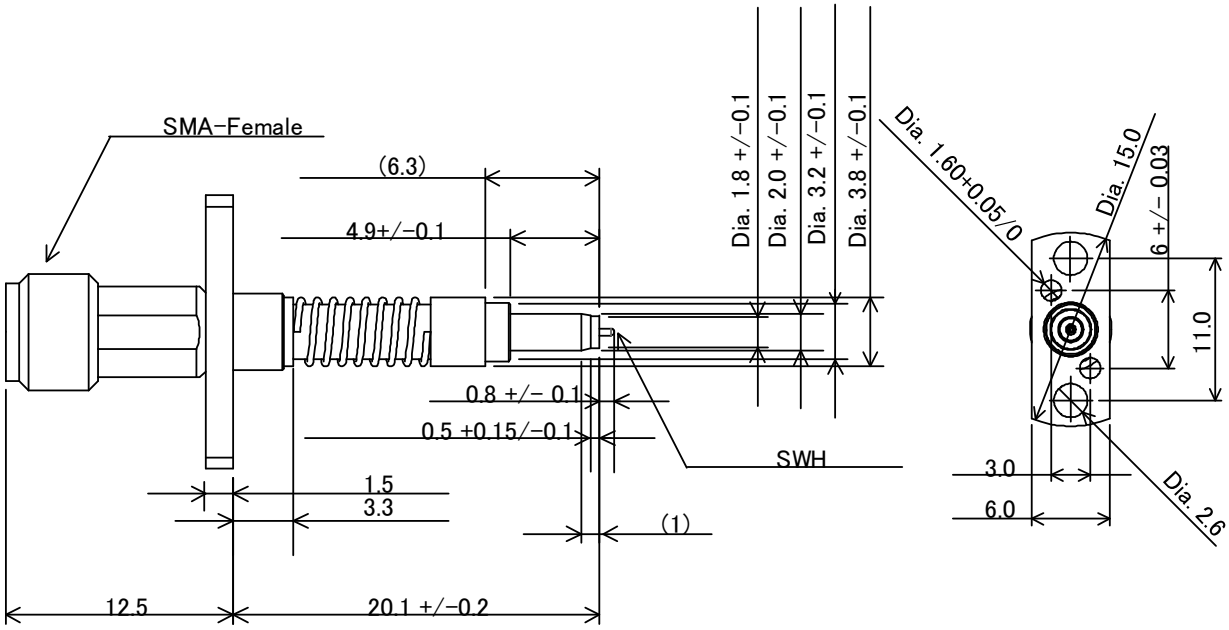
SPECIFICATION

1. MECHANICAL

Revised A: 10/May./'13 MA B: 18/Aug./'15 IG
C: 19/Aug./'20 NM, D:8/Dec./25 KA

D>C>
Automatic measurement probe for SWH
MM126511 and MM126512 are used as calibration adapter.
SOP of this probe setting in the fixture is VG16-OT-MM039.

C>A>



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

Figure 1 Construction

2. RATING:

Item	Specification
Voltage Rating	30Vr.m.s. maximum
C> Nominal Frequency Range	DC to 12GHz
Nominal Impedance	50Ω
C> Temperature Rating	25°C +/- 15°C
Insulation Resistance	500 MΩ minimum
C> Withstanding Voltage	No evidence of breakdown in AC 200V r.m.s, 1 minute
C> Initial Contact Resistance (without conductor resistance)	70mΩ max.
C> Voltage Standing Wave Ratio (V.S.W.R.)	1.30 (DC to 3GHz) 1.80 (3GHz to 6GHz) 1.90 (6GHz to 9GHz) 2.00 (9GHz to 12GHz)
C> Insertion loss	0.40dB max (DC to 3GHz) 0.70dB max (3GHz to 6GHz) 0.80dB max (6GHz to 9GHz) 1.10dB max (9GHz to 12GHz)
Durability	750K

3. USE THIS PRODUCTS

C>

3.1 Attach to fixture

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

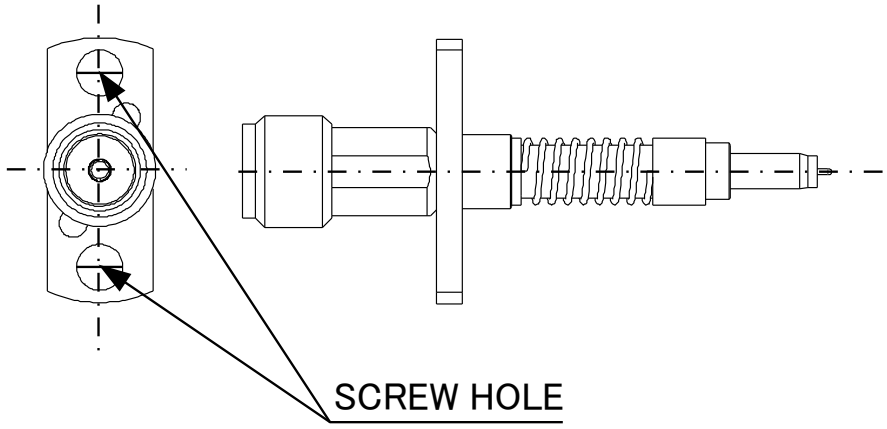


Figure.2 Screw hole position

C>B>

3.2 The tolerance of position against SWH type receptacle

3.2.1 MM126515 has the centering function by its design, +/-0.4(Typical)mm is permitted against the hole center of SWH type receptacle.

Please avoid needless force to SMA interface when MM126515 is disengaged from SWH 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 SWH type receptacle, when MM126515 is affected by the needless force.

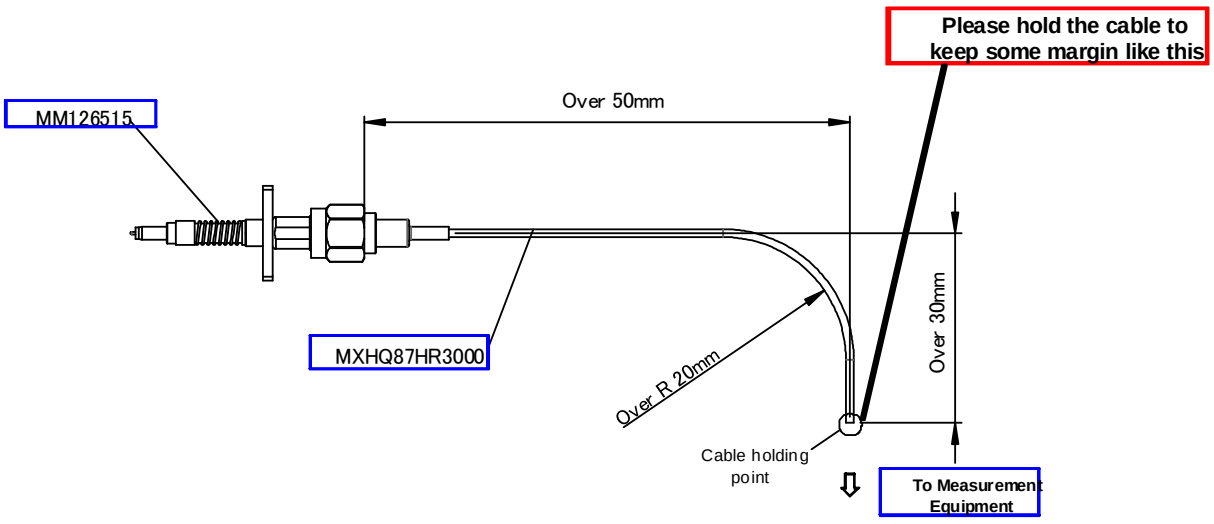
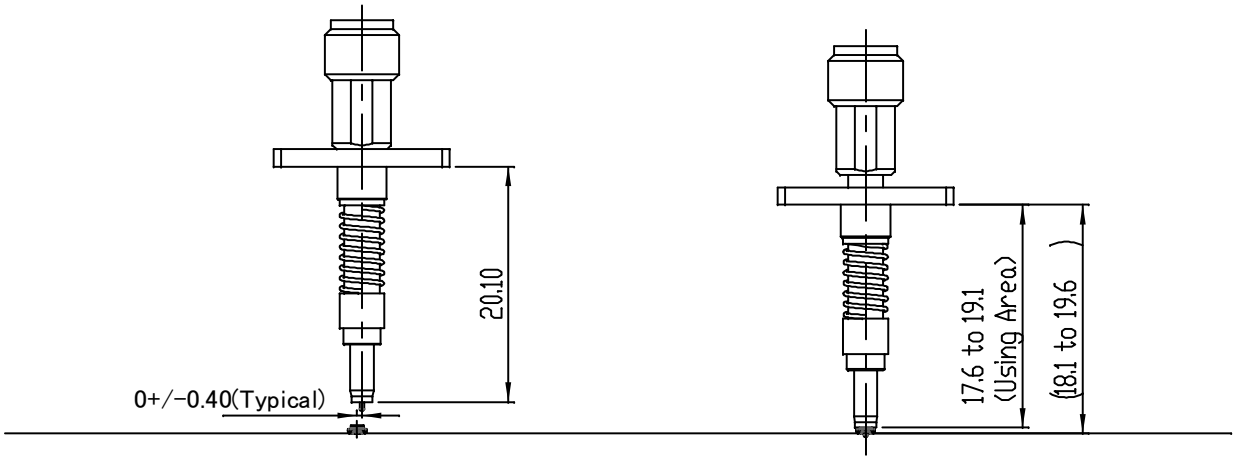


Figure.3 Instruction of MXHQ87HR3000

C>

3.2.2 To get the 15dB or higher isolation (up to 12GHz), The engagement strokes from the flange to the tip of probe is 17.6mm to 19.1mm. (Figure 4)



UNIT: mm

B>

Figure.4 Acceptable engagement range to SWH

B>

3.3 The slant angle tolerance of probe against SWH. (Figure 5)
To have the stable measurement, MM126515 slant angle must be +/-2degree.
C>

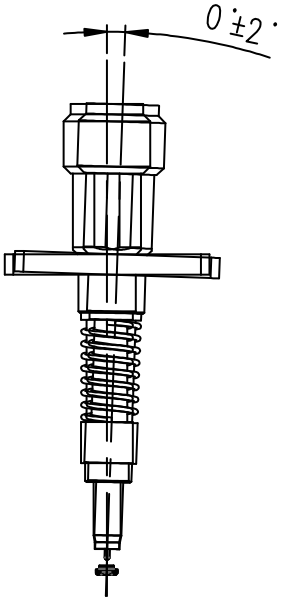


Figure.5 Probe Shape Operation Manual for Auto Measurement probe (MM126515)

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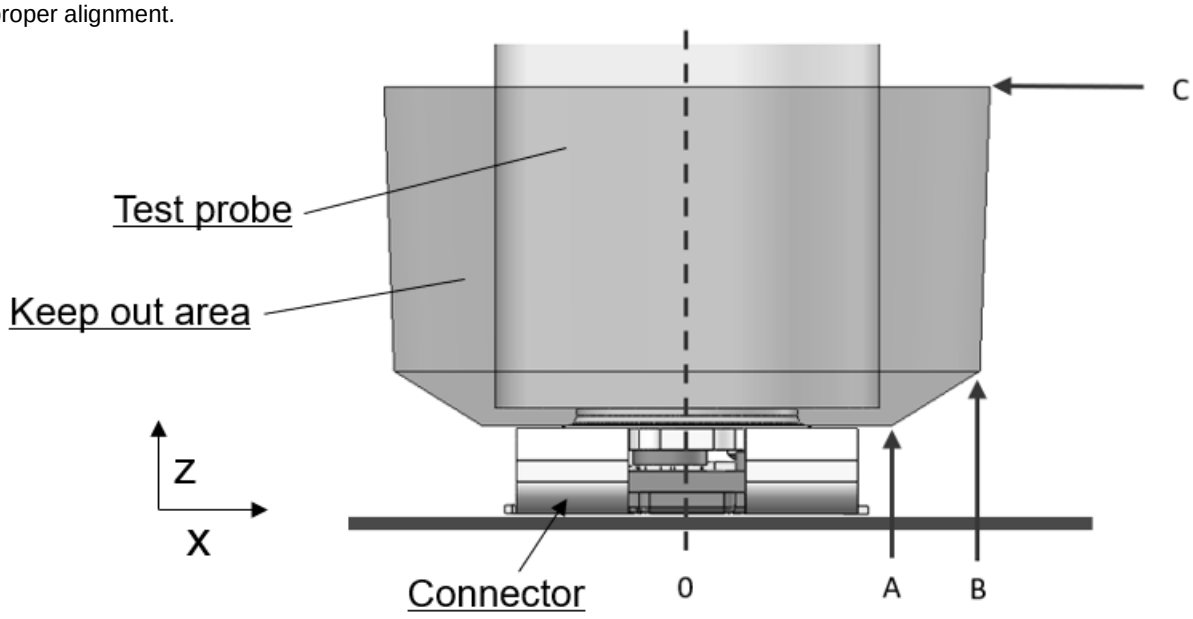
4 Keep out area of test probe

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	1.06	0.41
B	1.47	0.67
C	1.52	2.00

UNIT: mm

Figure.6 Keep out area of test probe