Preliminary Specification of COAXIAL CONNECTOR
Preliminary SPEC No. : NMM04-PV0062J
Part Number : MM126320

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SPECIFICATION

Revised A:24/Apr./12 MR, B:30/Jul./12 MR, C:4/Sep./14 YM, D:21/Oct./15 IG, E:26/Mar./20 MM
F:14/Jul./20 MM, G:14/Oct./20 NM, H:25/Feb./22 NM, J:8/Dec./25 KA

1. MECHANICAL

J>G>F>E>C>
Automatic measurement probe for SWD and SWF
MM126054 is used as calibration adapter.
SOP of this probe setting in the fixture is VG16-OT-MM038.

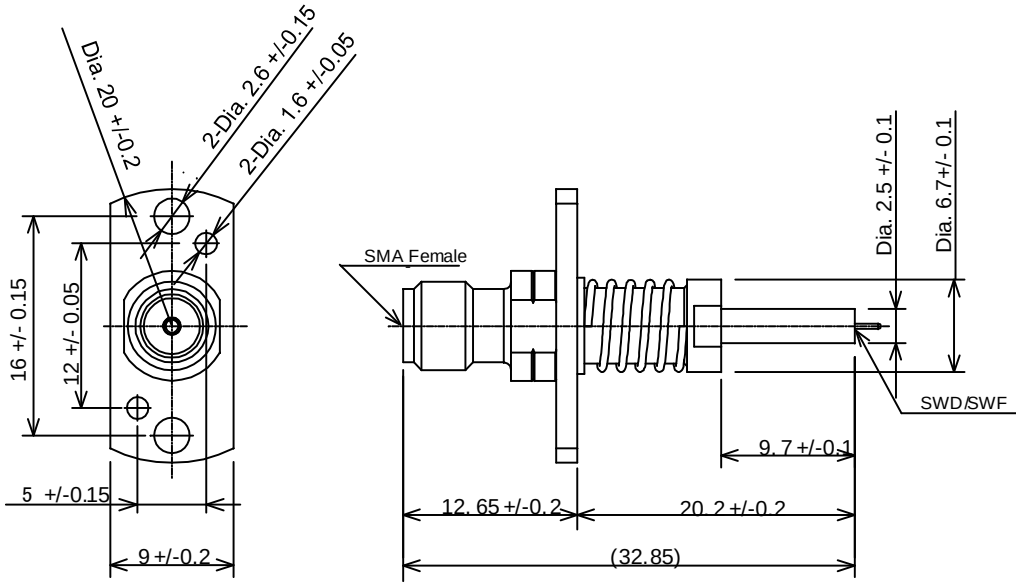

Figure.1 Construction

SCALE:FREE
TOLERANCES UNLESS OTHRWISE SPECIFIED: +/-0.5
UNIT:mm

2. RATING:

Item	Specification
Voltage Rating	30Vr.m.s. maximum
Nominal Frequency Range	DC to 6GHz
Nominal Impedance	50Ω
F> Temperature Rating	25°C +/- 15°C
Insulation Resistance	500 MΩ minimum
Withstanding Voltage	No evidence of breakdown in AC 300V r.m.s, 1 minute
F>A>Initial Contact Resistance (without conductor resistance)	70mΩ max.
Voltage Standing Wave Ratio (V.S.W.R.)	1.6max (DC~3GHz) 1.7max (3~6GHz)
Insertion Loss	0.5dB max (DC~3GHz) 0.85dB max (3~6GHz)
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)

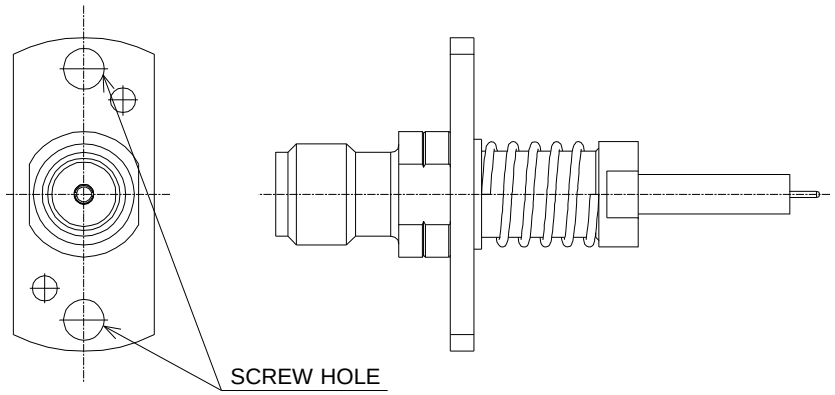

Figure.2 Screw hole

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3.2 The tolerance of position against SWD and SWF type receptacle.

3.2.1 MM126320 has a centering function by its design, +/-0.5(Typical)mm is permitted against the hole center of SWD and SWF type receptacle.

Please avoid needless force to SMA interface when MM126320 is disengaged from SWD and SWF type receptacle and comes back to its original position.

To avoid the needless force, please use extension cable assembly, MXHQ87HR3000 (Figure 3).
Centering function +/-0.5(Typical)mm may not be permitted against the hole center of SWD and SWF type receptacle, when MM126320 is affected by the needless force.

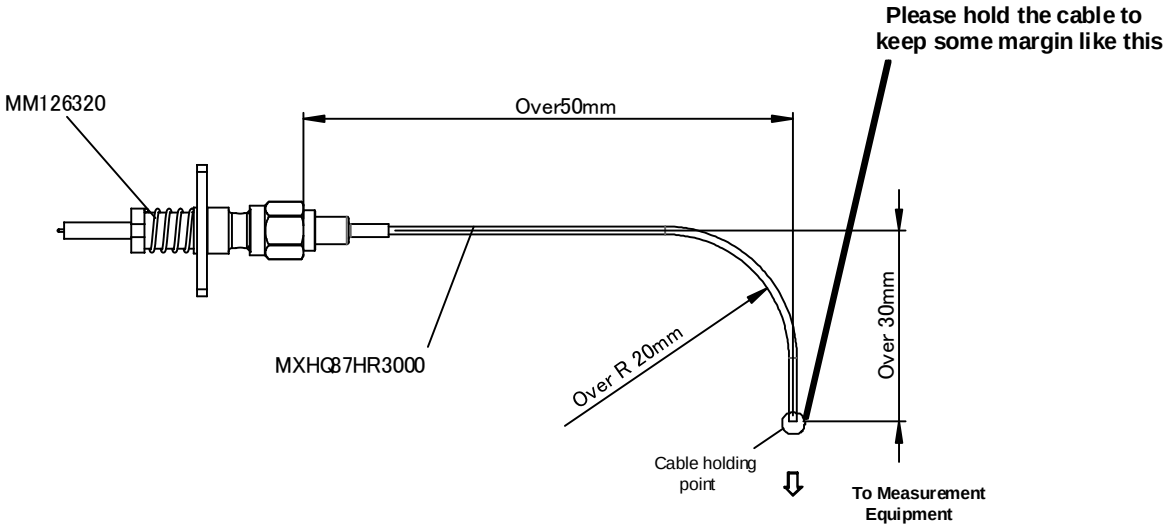
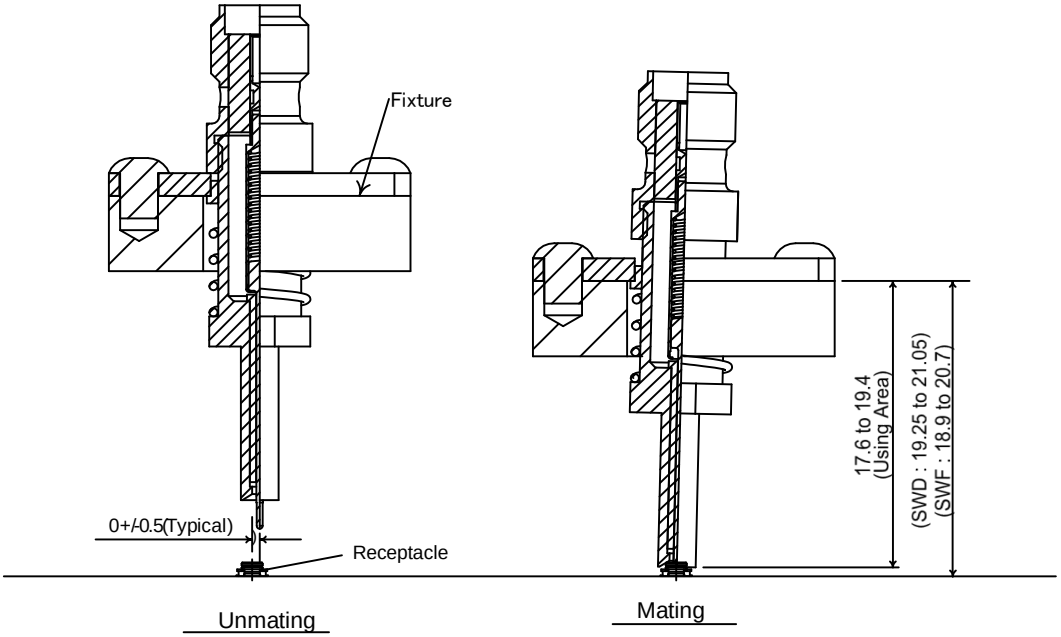


Figure.3 Instruction of MXHQ87HR3000

H>F>D>

3.2.2 To get the 15dB or higher isolation (up to 6GHz), the engagement strokes from the bottom surface of flange to the tip of probe is 17.6mm to 19.4mm. (Figure 4)



UNIT: mm

Figure.4 Acceptable Engagement range

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3.3 The slant angle tolerance of probe against SWD and SWF. (Figure 5)
To have the stable measurement, MM126320 slant angle must be +/-2degree.

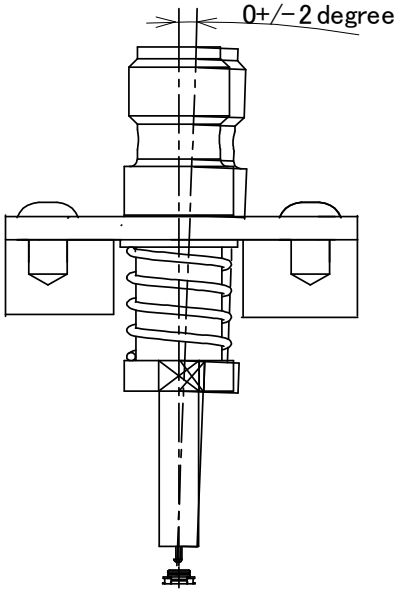

Figure.5 Probe Shape Operation Manual for Auto Measurement probe (MM126320)

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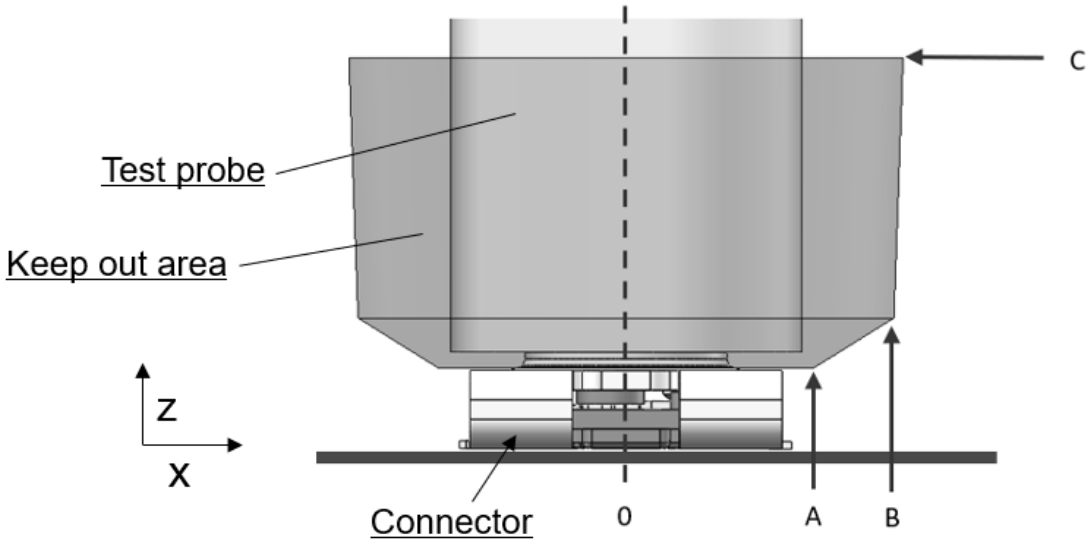
4 Keep out area of test probe

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	1.34	1.19
B	1.85	1.50
C	1.87	2.00

UNIT: mm

Figure.6 Keep out area of test probe