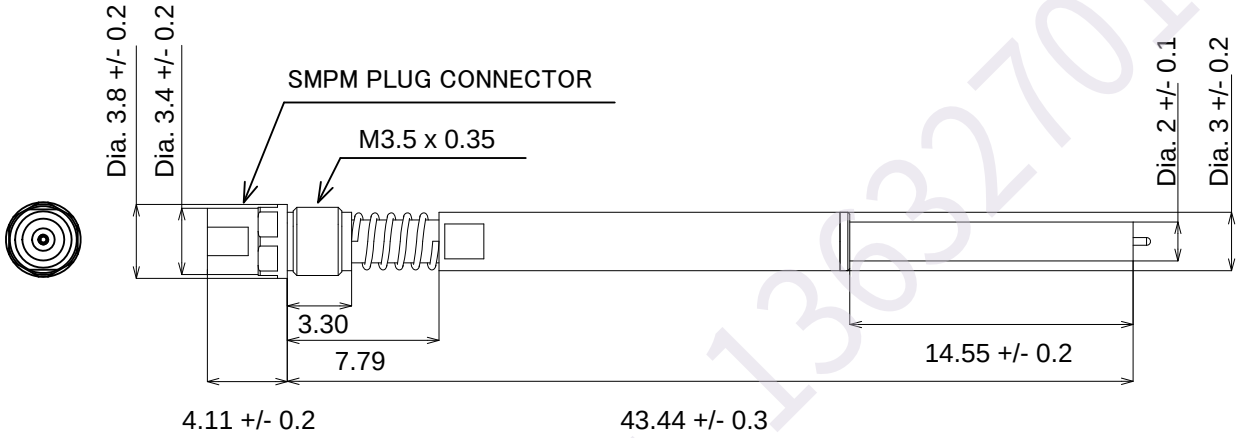
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朱先生 13632701009 zb@awnatech.com

Preliminary Specification of COAXIAL CONNECTOR
Preliminary SPEC No. : NMM04-PV0012A
Part Number : MM206411

Written by Y. Yumita
Checked by T. Kuriyama
Date 18/Feb./2009
Revised A: 06/Mar. /'09 KY

SPECIFICATION

1. MECHANICAL



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

Figure.1 Construction

2. RATING:

Item	Specification
Voltage Rating	250Vr.m.s. maximum
Nominal Frequency Range	DC to 11GHz
Nominal Impedance	50Ω
Temperature Rating	-40°C to +85°C
Insulation Resistance	500 MΩ minimum
Withstanding Voltage	No evidence of breakdown
Initial Contact Resistance (without conductor resistance)	Center contact 70.0mΩmax. Outer contact 20.0mΩmax.
A> Voltage Standing Wave Ratio (V.S.W.R.)	Meet the requirements of following spec. 1.6max. (DC to 3GHz) 1.8max. (3GHz to 6GHz) 2.2max. (6GHz to 11GHz)
A> Insertion Ioss	0.6dB max. (DC to 3GHz) 1.0dB max. (3GHz to 6GHz) 2.0dB max. (6GHz to 11GHz)
A> Durability	200K cycles

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3. USE THIS PRODUCTS

3.1 The directions for attachment to measurement machine.

The probe must be attached to machine at the screw in probe flange. (Figure 2)
To attach the probe to machine, please make M3.5 x 0.35 hole in machine.

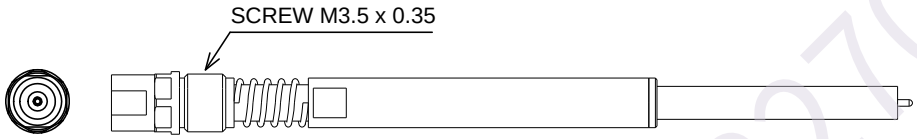


Figure.2 Screw hole size

3.2 The tolerance of position against SWG type Receptacle.

3.2.1 Probe has the centering function by itself, +0.5mm is permitted against the hole center of SWG type Receptacle.
Please avoid needless force to SMPM connector to come back the original position when disengagement of probe.
To avoid the needless force, we recommend using extension cable assembly, MXHQ87SM3000. The instruction of the MXHQ87SM3000 is as Figure 3.
There is the possibility, following function +/-0.5mm is not permitted against the hole center of SWG type Receptacle, when probe effects the needless force.

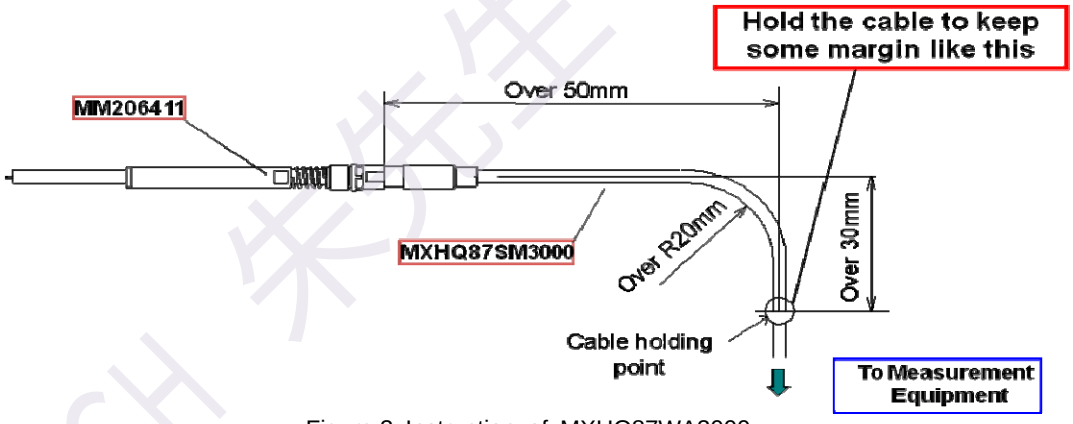


Figure.3 Instruction of MXHQ87WA3000

3.2.2 To get the 10dB or higher isolation (up to 11GHz), the engagement strokes from the top surface of jig to the tip of probe is 41.95mm to 42.95mm. (Figure 3)

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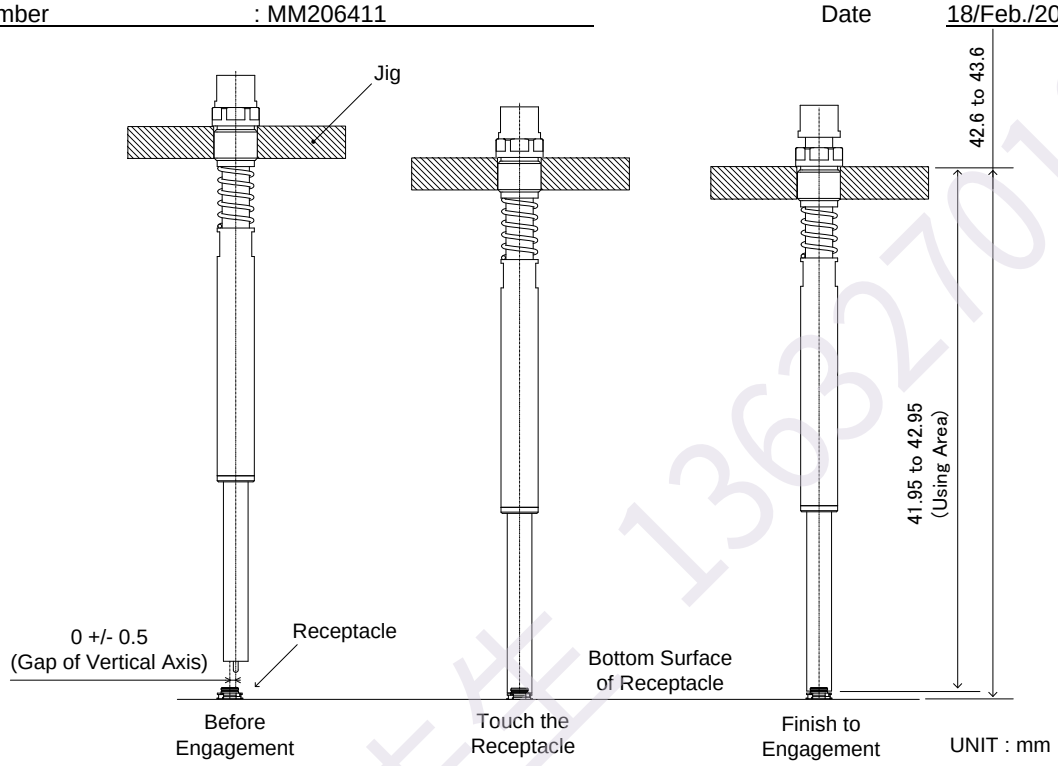


Figure.3 Acceptable Engagement range to SWG type receptacle

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3.3 The slant angle tolerance of probe against SWG type Receptacle. (Figure 4)
To have the stable measurement, MM206411 slant angle must be +/-2degree.

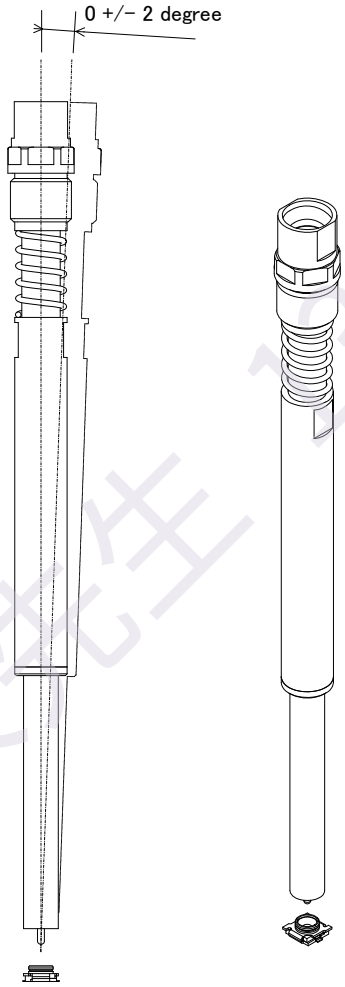


Figure.4 Probe Shape Operation Manual for Auto Measurement probe (MM206411)

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