

Preliminary Specification of COAXIAL CONNECTOR

Preliminary SPEC No. : NMM04-PD0004A

Part Number : MM126038

Written by T.Kuriyama

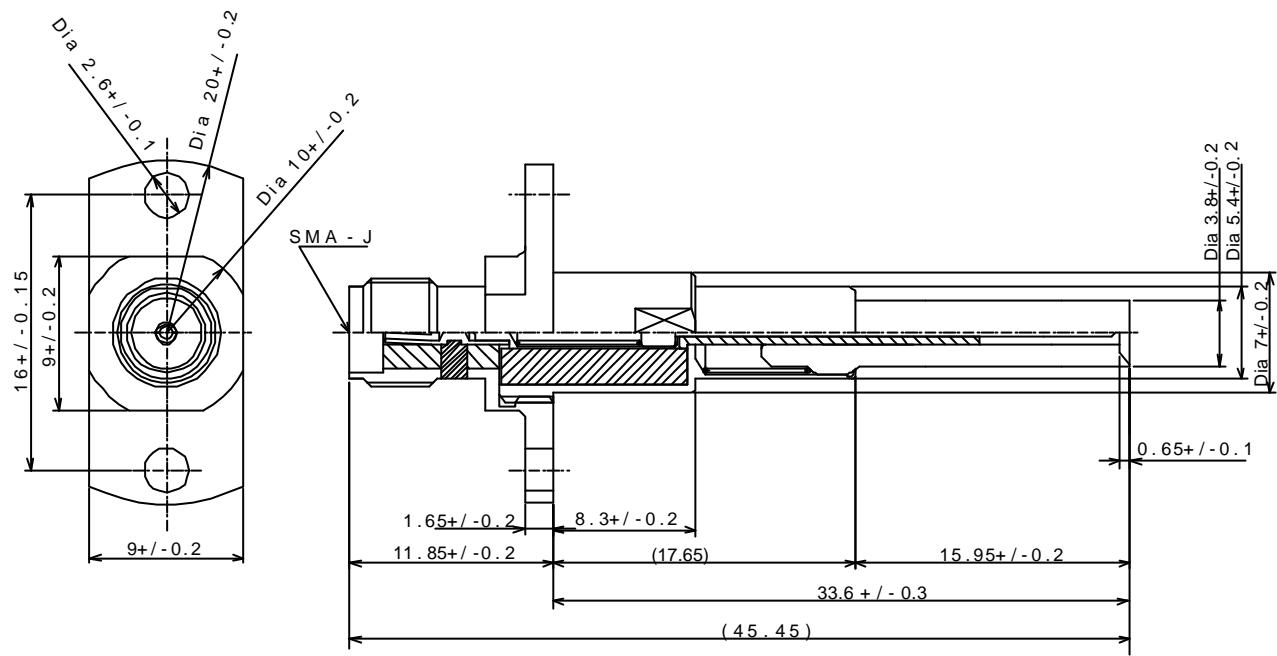
Checked by Y.Otani

Date 17 /May/2001

Revised A: 9/Jul./'02 KY

SPECIFICATION

1. MECHANICAL



SCALE:FREE
UNIT: mm

Figure1.Construction

2. RATING:

Item	Specification
Voltage Rating	A> 250V r.m.s. maximum
Nominal Frequency Range	DC to 6GHz
Nominal Impedance	50Ω
Temperature Rating	-40°C to +90°C
Insulation Resistance	500 MΩ minimum
Withstanding Voltage	No evidence of breakdown
Initial Contact Resistance (without conductor resistance)	Center contact 25.0mΩmax. Outer contact 20.0mΩmax.
Voltage Standing Wave Ratio (V.S.W.R.)	Meet the requirements of following spec. 1.5 max. (DC to 3GHz) 2.5 max. (3GHz to 6GHz)
Insertion loss	0.8dBmax. (DC~3GHz) 2.6dBmax.(3GHz ~6GHz)
Durability	1M 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 two screw holes in probe flange. (Figure 2)

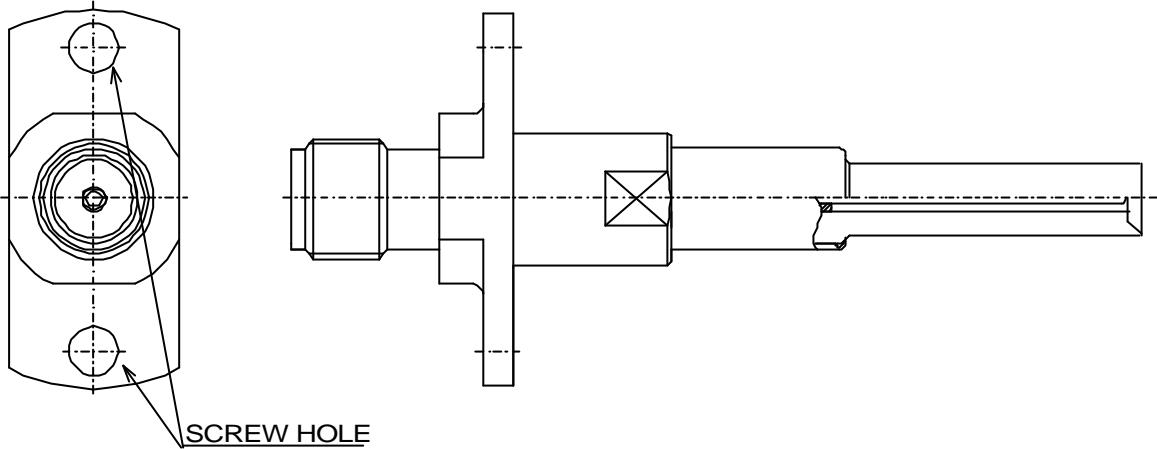


Figure2.Screw hole position

3.2 The tolerance of position against MM8430-2600B

With the standard attachment method, $+\/-0.05\text{mm}$ is permitted against the hole center of MM8430-2600B.

However, with the machine which has the following function, $+\/-0.7\text{mm}$ is permitted against the hole center of MM8430-2600B.

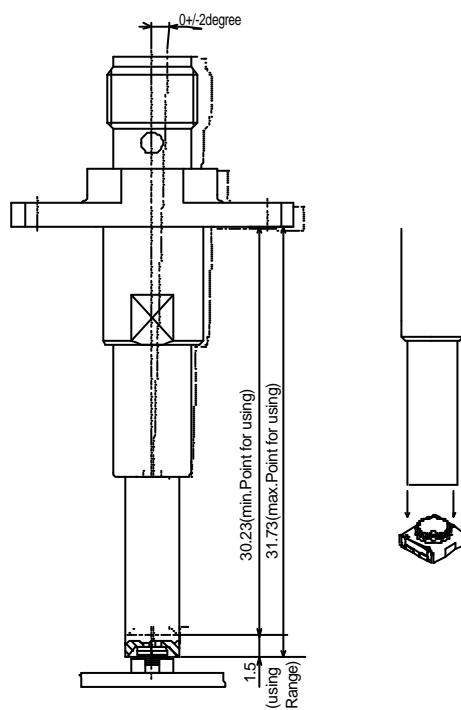
The function is to utilize the taper at tip of probe (See Figure 3). If the taper can be acting as the guide, tolerance can be wider.

3.3 The engagement strokes (Figure 3)

To get the 15dB or higher isolation (up to 6GHz), The engagement strokes from the flange to the tip of probe is 30.23mm to 31.73mm for the outer conductor.

3.4 The slant angle tolerance of probe against MM8430-2600B. (Figure 3)

To have the stable measurement, MM126038 slant angle must be $+\/-2\text{degree}$.



UNIT: mm

Figure3.Probe Shape Operation Manual for Auto Measurement probe (MM126038)