



Preliminary Specification of COAXIAL CONNECTOR

Preliminary SPEC No. : NMM04-PL0006C

Part Number : MM121650

SPECIFICATION

Revised A: 30/Sep./'14 OM, B: 10/Jun./'16 MA C: 6/Jan./'19 II

Written by H. Kitaguchi

Checked by M. Atokawa

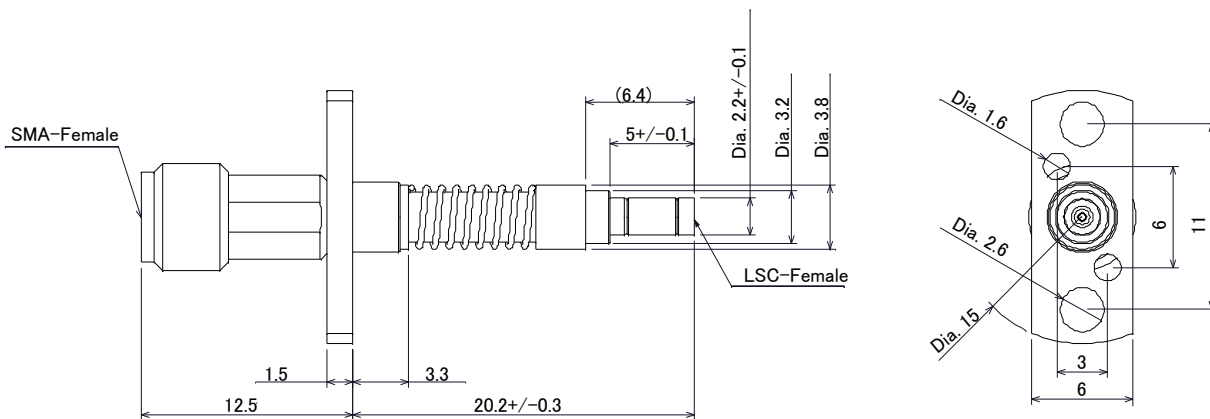
Date 28/Feb./2014

1. MECHANICAL

C>B>

Automatic measurement probe for LSC-Male.

MM121662 and MM121661 are used as calibration adapter.



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

Figure.1 Construction

2. RATING:

| Item | Specification |
|--|--|
| Voltage Rating | 30Vr.m.s. maximum |
| Nominal Frequency Range | DC to 6GHz |
| Nominal Impedance | 50Ω |
| Temperature Rating | -40°C to +85°C |
| Insulation Resistance | 500 MΩ minimum |
| C> Withstanding Voltage | No evidence of break down in AC300Vr.m.s, 1minute |
| Initial Contact Resistance (without conductor resistance) | 70mΩmax. |
| A> Voltage Standing Wave Ratio (V.S.W.R.) | Meet the requirements of following spec. 1.4 max. (DC to 3GHz) 1.8 max. (3GHz to 6GHz) |
| A> Insertion loss | 0.6dB max. (DC to 3GHz) 0.8dB max. (3GHz to 6GHz) |
| A> Durability | 250k cycles |

3. USE THIS PRODUCTS

3.1 The directions for attachment to measurement fixture.

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

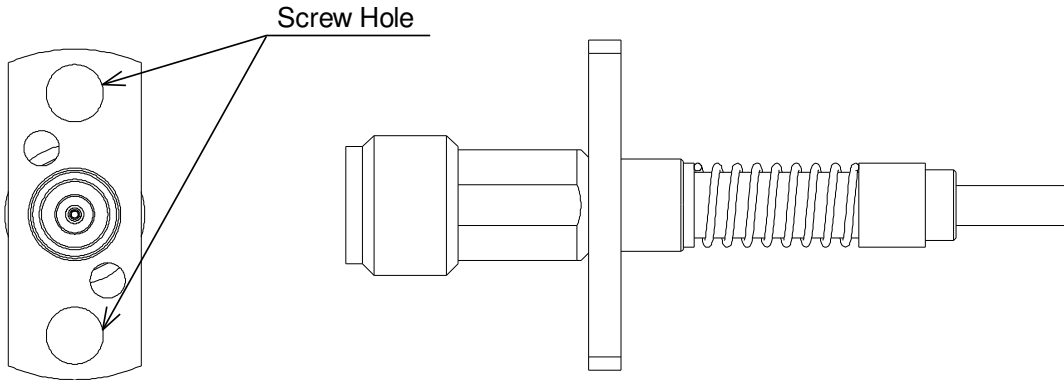


Figure.2 Screw hole position

C>

3.2 The tolerance of position against MM7829-2700.

Probe has the centering function by itself, +/-0.4mm is permitted against the hole center of LSC-Male.

Please avoid needless force to SMA-Female connector to come back the original position when disengagement of probe.

The engagement strokes from the bottom surface of flange to the tip of probe is 17.7mm to 19.2mm. (Figure 3)

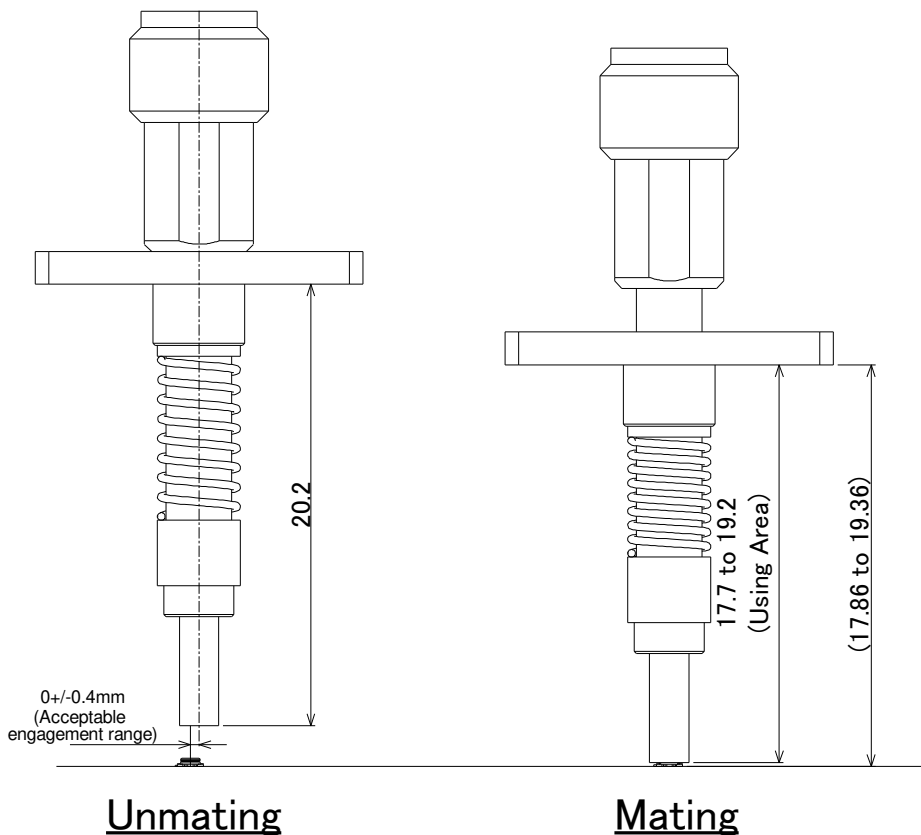


Figure.3 Acceptable engagement range to LSC-Male



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3.3 The slant angle tolerance of probe against LSC-Male. (Figure 4)
To have the stable measurement, MM121650 slant angle must be 0 ± 2 degree.

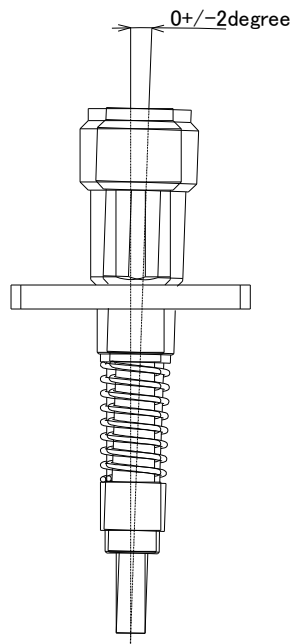


Figure.4 Probe Shape Operation Manual for Auto Measurement probe (MM121650)