

Preliminary Specification of COAXIAL CONNECTOR

Preliminary SPEC No. : NMM04-PJ0066C
 Part Number : MM5831-2700B/RJ4/RK15

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 Date: 6/Jan./2011

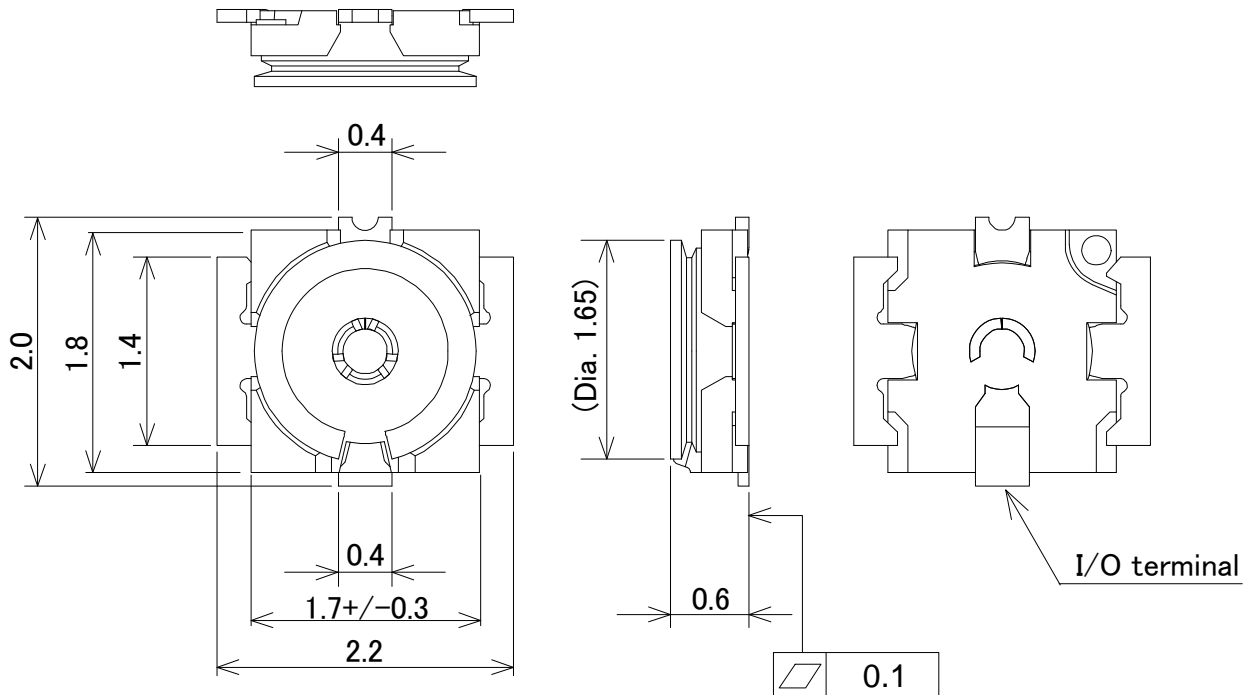
SPECIFICATION Revised A: 23/Apr./'12 TK Revised B: 14/Aug./'13 KT Revised C: 30/Mar./'16 IG

1. PART NUMBER

Part Number	Packaging	Quantity	Remarks
MM5831-2700B	Bulk Package	Free	
MM5831-2700RJ4	178 mm dia. reel	4000 pcs/reel	ESD protection
MM5831-2700RK15	330 mm dia. reel	15000 pcs/reel	ESD protection

2. MECHANICAL

B>



Scale: Free
 Tolerances Unless
 Otherwise Specified: +/-0.2
 Unit: mm

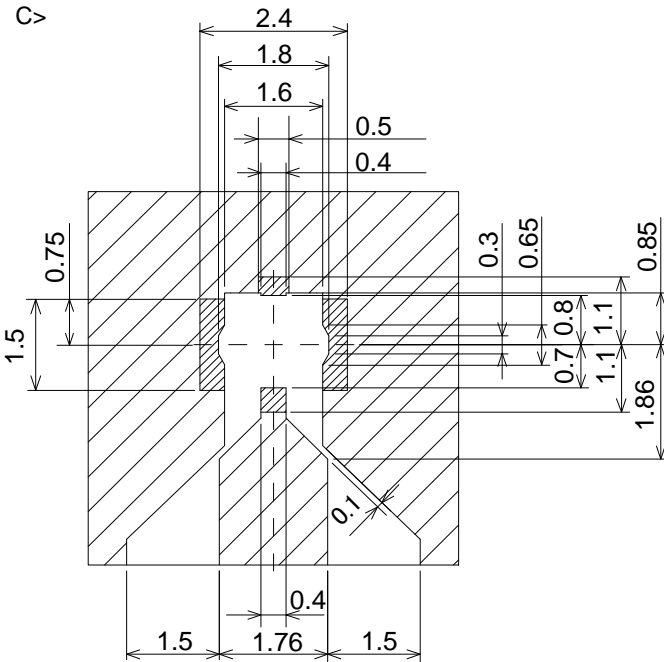
FIGURE1. Construction

3. RATING:

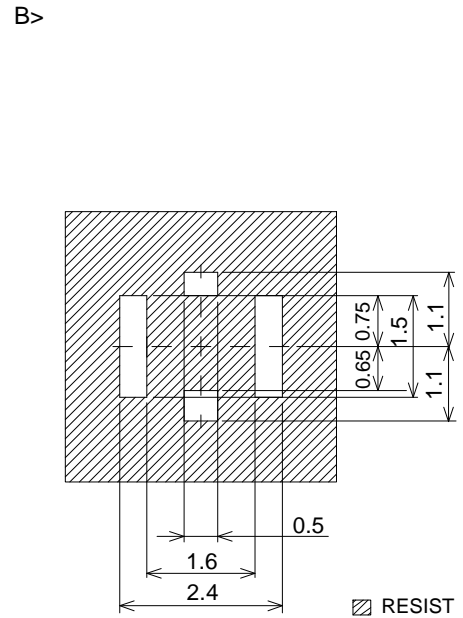
Item	Specification
Voltage Rating	30V r.m.s. maximum
Nominal Frequency Range	DC to 6 GHz
Nominal Impedance	50Ω
Temperature Rating	-40°C to +85°C
Insulation Resistance	500 MΩ minimum
Withstanding Voltage	AC 300V r.m.s./ 1min
Initial Contact Resistance (without conductor resistance)	Center contact 35.0mΩmax. Outer contact 20.0mΩmax.
Voltage Standing Wave Ratio (V.S.W.R.)	Meet the requirements of 1.3 max.(DC~3GHz) 1.5 max.(3GHz~6GHz)

4. STANDARD PATTERN DIMENSION

Electrode



Solder Resist



Unit: mm

(Note) I/O pattern is designed to be the impedance match 50 ohm.

The material of PWB is the epoxy resin of glass fabric base ($\epsilon_r = 4.3@1\text{GHz}$). Thickness is 1.0mm.

The solder resist is printed except for the land pattern on the PWB.

Land pattern and Solder resist pattern must be followed to avoid soldering defects.

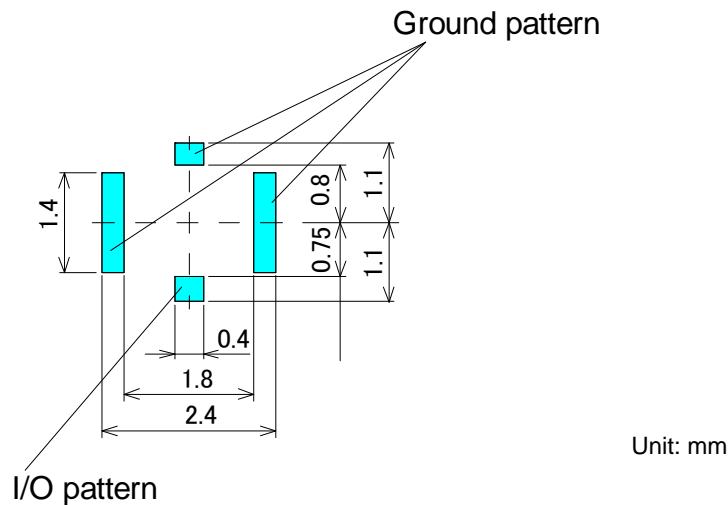
FIGURE2. Standard pattern dimensions

5. STANDARD STENCIL MASK PATTERN

B>

There is the possibility at SMD plug to solder- joint with some gap in between PWB by the excess solder.

Stencil mask pattern must be followed to avoid soldering defects.



Unit: mm

The recommended stencil mask thickness is as 0.1mm.

FIGURE3. Standard stencil mask pattern

6. MATING HEIGHT

C>

FIGURE4 shows engagement is completed. Need to check if the mating height is 0.8mm maximum.

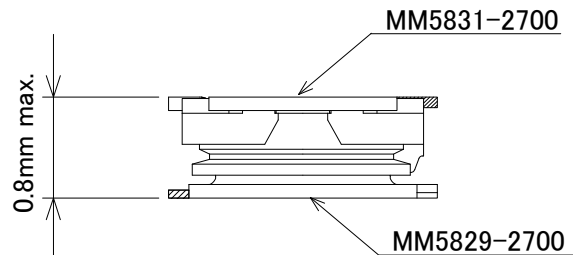


FIGURE. 4 Completion of engagement

7. CAUTION

Limitation of Applications

Please do not use our products for the applications listed below which require specially high reliability for the prevention of defects which may directly or indirectly cause damage to the third party's life, body or property.

- (1) Aircraft equipment
- (2) Aerospace equipment
- (3) Undersea equipment
- (4) Power plant control equipment
- (5) Medical equipment
- (6) Transportation equipment (vehicles, trains, ships, etc.)
- (7) Traffic signal equipment
- (8) Disaster prevention / crime prevention equipment
- (9) Data-processing equipment
- (10) Application of similar complexity and/or reliability requirements to the applications listed in the above.

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