Preliminary Specification of COAXIAL CONNECTOR
Preliminary SPEC No. : NMM04-PV0127B
Part Number : MM8030-2610B/RJ3/RK0

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Checked by : T. Kuriyama
Date : 21/Dec./2015

SPECIFICATION

Revised A: 16/Jan. /'17 YM B: 11/Apr./'18 KJ

1. PART NUMBER

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Part Number	Packaging	Quantity	Remarks
MM8030-2610B	Bulk Package		
MM8030-2610RJ3	180mm dia. Reel	3000pcs/reel	ESD protection
MM8030-2610RK0	330mm dia. Reel	10000pcs/reel	ESD protection

2. MECHANICAL

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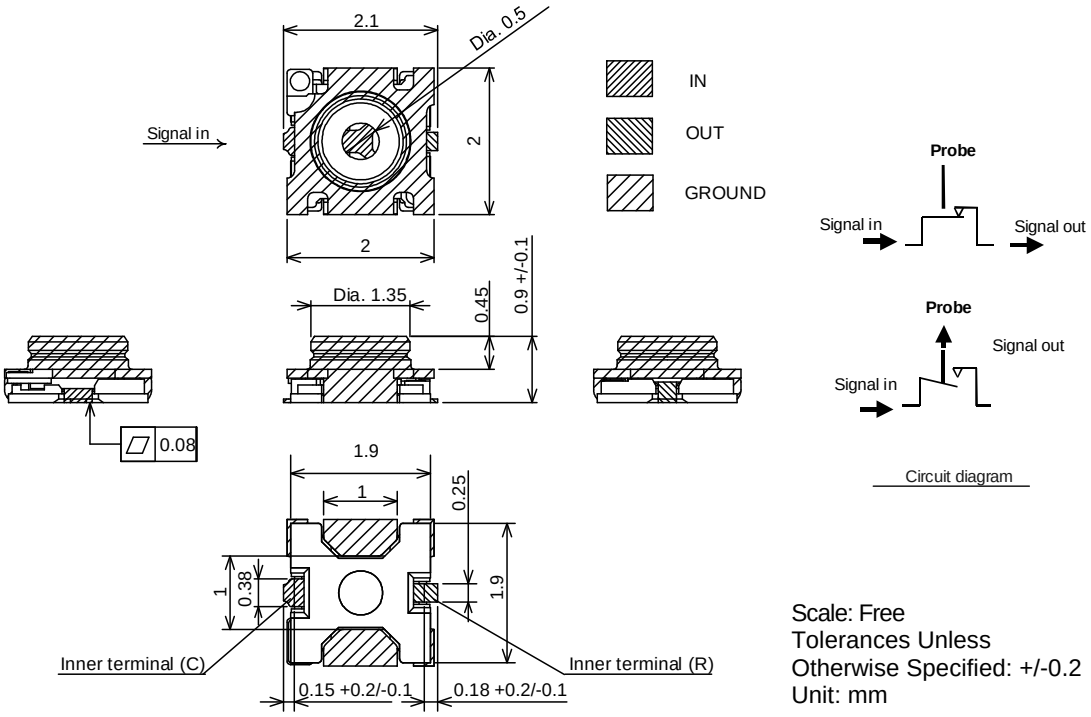

FIGURE1. Construction

3. RATING :

Item	Specification
Voltage Rating	30V r.m.s. maximum
Nominal Frequency Range	DC to 11GHz
Nominal Impedance	50Ω
Power Rating	2Wmax (at 2GHz)
Temperature Rating	-40℃ to +85℃
Insulation Resistance	500 MΩ minimum
Withstanding Voltage	No evidence of break down in AC300+/-20Vr.m.s, 1minute
Initial Contact Resistance (without conductor resistance)	70mΩmax.
Voltage Standing Wave Ratio (V.S.W.R.)	1.2 max. (DC to 3GHz) 1.3 max. (3GHz to 6GHz) 1.5max. (6GHz to 11GHz)
Insertion Loss	0.1dBmax. (DC to 3GHz) 0.2dBmax.(3GHz to 6GHz) 0.5dBmax. (6GHz to 11GHz)
Isolation	20dBmin.(DC to 3GHz) 15dBmin.(3GHz to 6GHz) 10dBmin. (6GHz to 11GHz)
Durability	100 cycles

4. STANDARD LAND PATTERN

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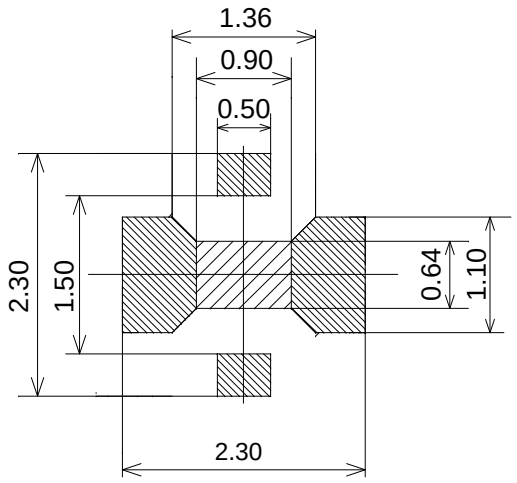
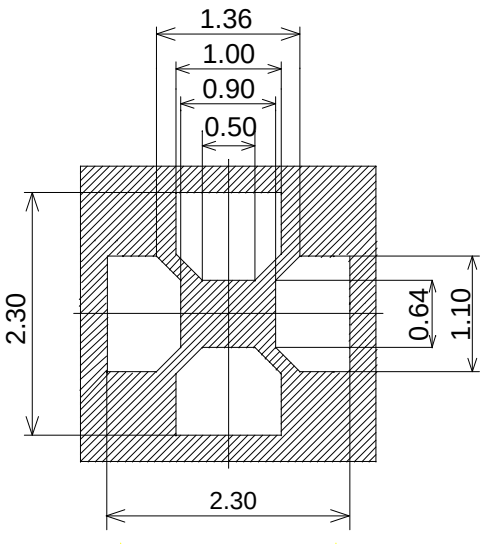


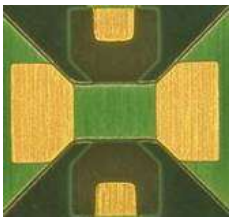
Land (Electrode + Gold plating)
Electrode

Land pattern & Electrode



Resist area

Resist pattern



(For your reference)

Appearance of Electrode and Resist

(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. (εr =4.3@1GHz). 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

The standard stencil mask pattern is shown in FIGURE 3.

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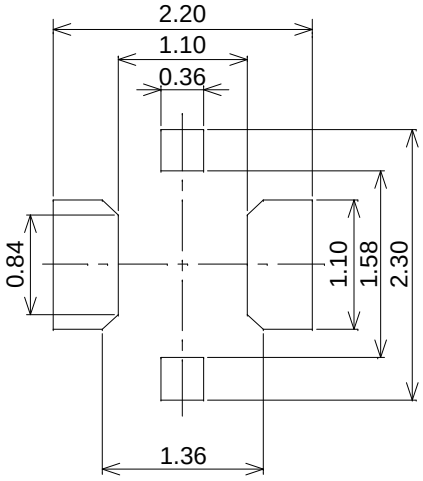
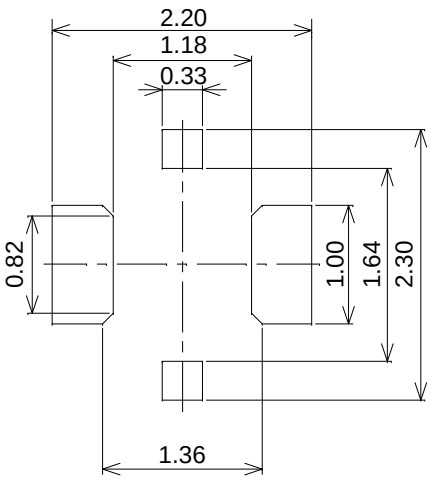
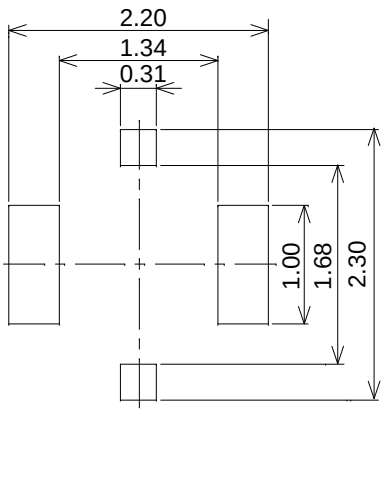


(Thickness:0.08mm)



(Thickness:0.10mm)



(Thickness:0.12mm)

(Note) There is a possibility to have contact failures by solder or flux shifting into contact points,
If excess solder is used by non-standard stencil mask patterns.
Stencil mask pattern must be followed to avoid soldering defects.
This stencil mask pattern is calculated with resist thickness *30μm*.

FIGURE3. Standard stencil mask pattern

6. ⚠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.

Appendix

EVALUATION BOARD DESCRIPTION

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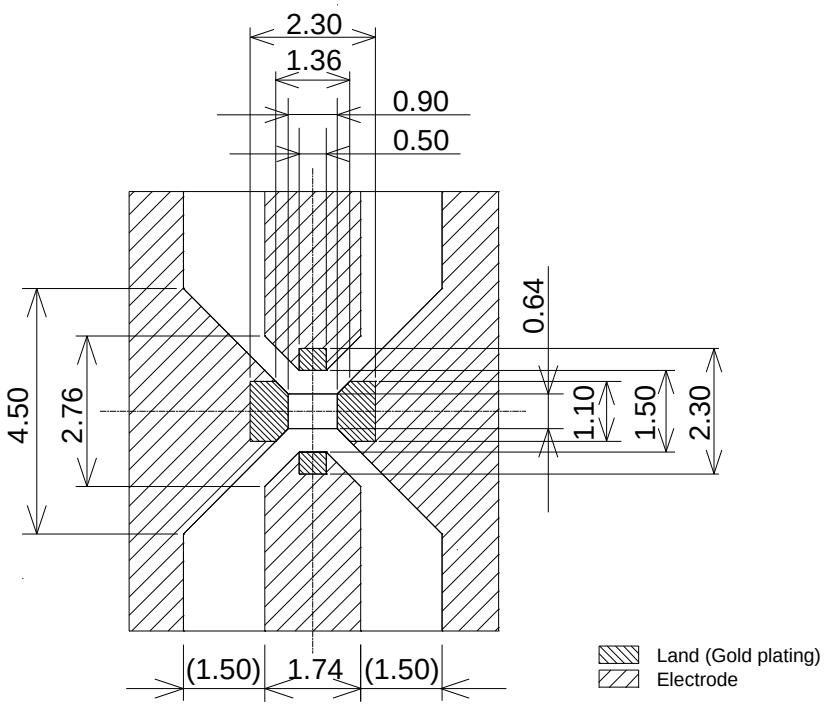

A> (Note) ･The material of PWB is the epoxy resin of glass fabric base. (εr=4.3@1GHz). Thickness is 1.0mm.
･The solder resist should be printed except for the land pattern on the PWB