

NEW



microSIM Card Connector

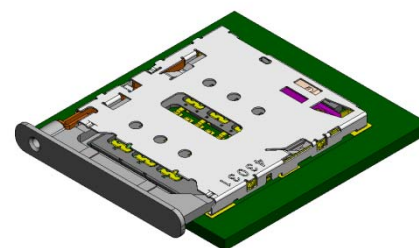
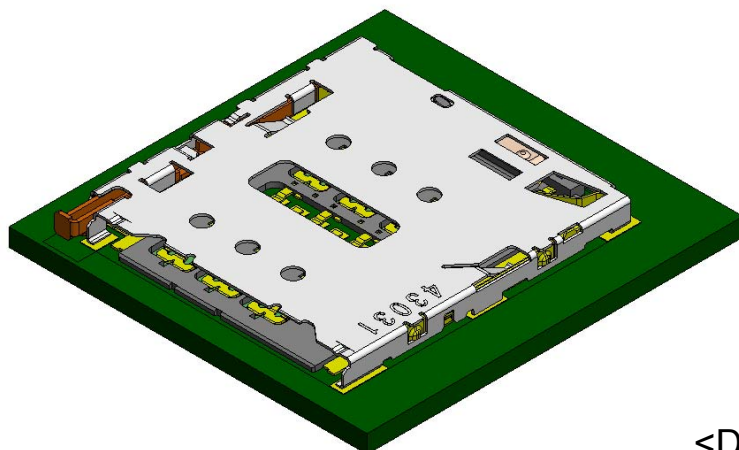
CONNECTOR

MB-0271-1

April 2014

SF58 Series

RoHS Compliant



<Drawing when a tray is inserted>

Note: Tray is not included. Tray is to be prepared by customers.

<<Outline>>

Smartphones and tablet PC equipping microSIM (Mini UICC) Cards are increasing. The SF58 Series is a push-eject type (ejected by pushing pin) connector compatible with the micro SIM card.

(SIM: Subscriber Identify Module)

Features

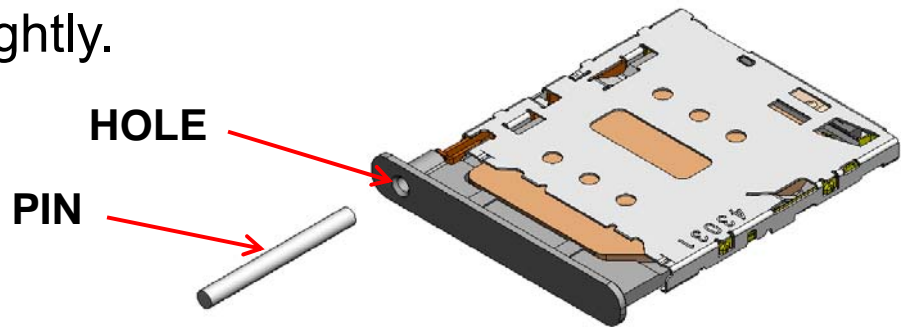
- 1.3mm height, 15.5mm width, and 16.35mm depth, low-profile, space saving.
- Card mis-insertion measures, with card detection switch (normal open).
- Structure that enables visual check of terminal area after SMT Mounting.
- Superior resistance against drop with original lock structure.
- Pb-free, halogen-free compliant product.
- Supports automated mounting with embossed tape.

General Specifications

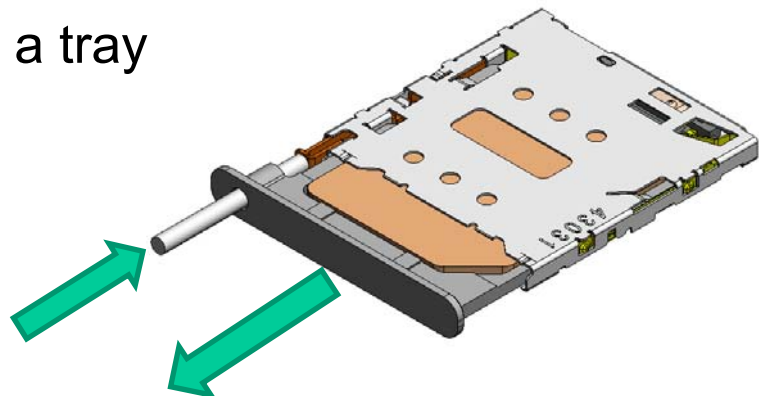
- | | |
|--|--|
| ■ No. of Contacts: 6 pos. + 2 pos. (D-SW) | ■ Rated Current: 0.5A per pin |
| ■ Contact Resistance: 100mΩ max. (initial) | ■ Rated Voltage: 10V per pin |
| ■ Dielectric Withstanding Voltage: AC500Vr.m.s for 1 minute | ■ Insulation Resistance: 1,000MΩ min. (initial) |
| ■ Operating Temperature: -40 Deg. C to +85 Deg. C | ■ Durability: 5,000 times |
| | ■ Tray Insertion Force: 10N max. |

How to Eject Tray

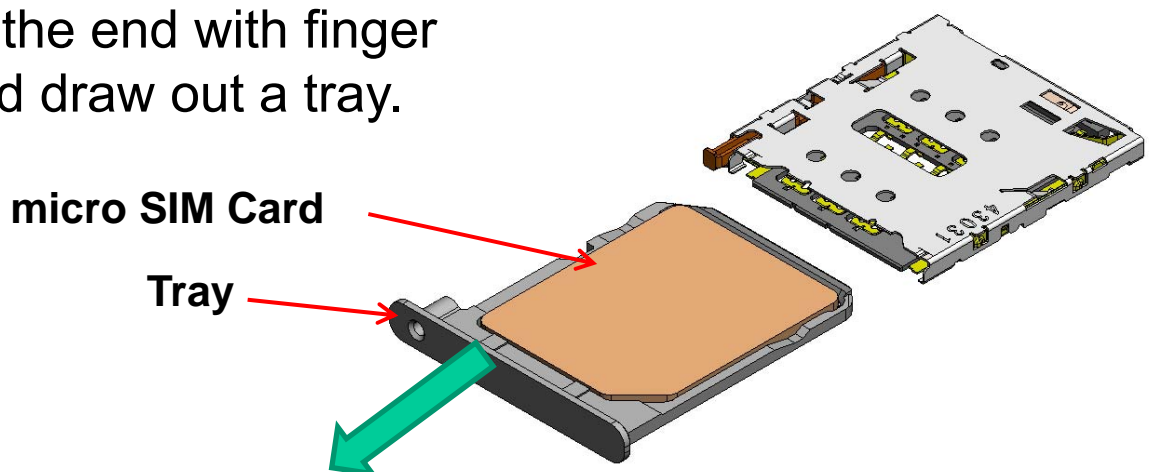
1. Insert a pin into the hole on the tray straightly.



2. Push a pin in until a tray ejects.



3. Pull the end with finger tips and draw out a tray.

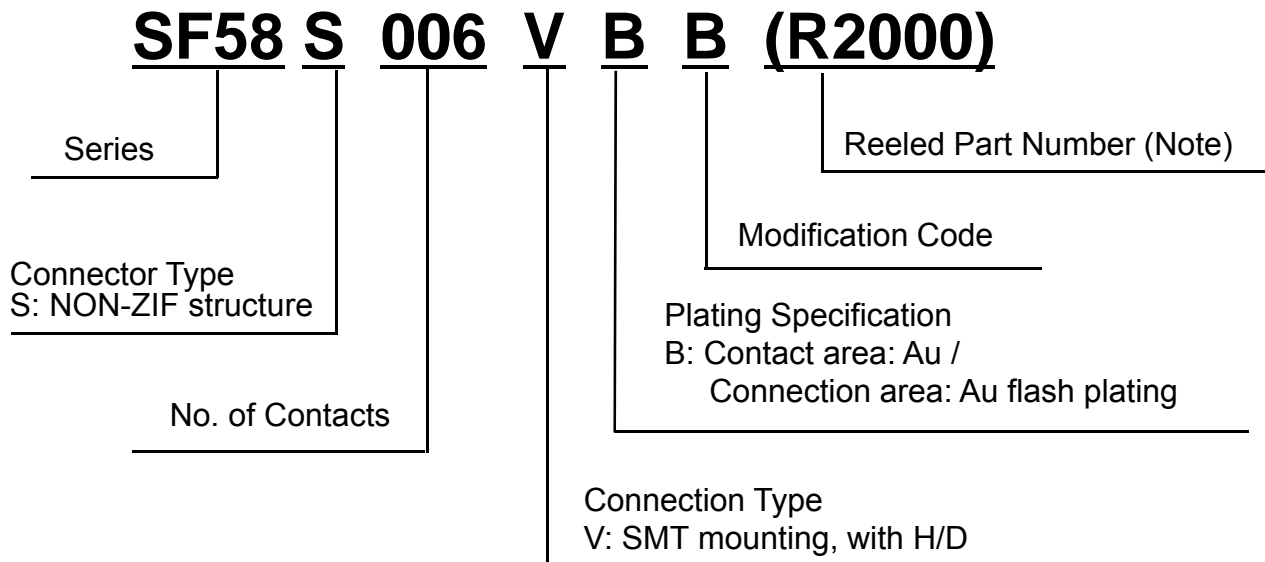


Note: Tray is not included.
Tray is to be prepared
by customers.

Materials and Finishes

| Component | Material and Finish |
|--|--|
| Signal Contact D-SW Contact Main Frame | Copper alloy / Contact area: Au plating over Ni Terminal area: Au flash plating over Ni |
| Housing | Synthetic resin / None |
| Cover Frame | Stainless steel / Terminal area: Au flash plating |
| Eject Bar | Stainless steel / None |
| Eject Lever | Stainless steel / None |

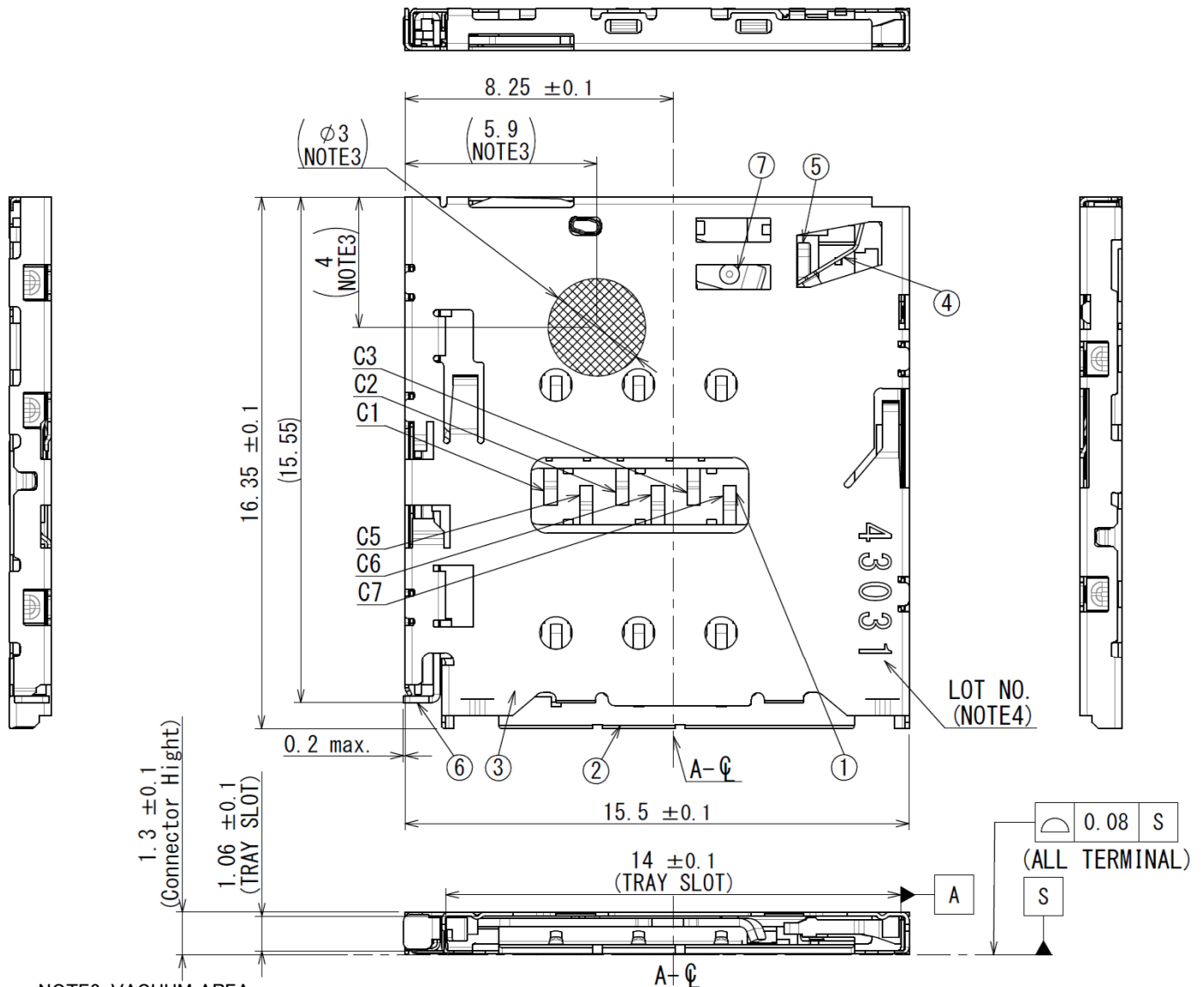
Ordering Information



Note: An embossed tape reel contains 2,000 pieces.

Please contact us concerning packaging specifications.

| | |
|-------------|----------------|
| Part Number | Drawing Number |
| SF58S006VBB | SJ114918 |



NOTE3. VACUUM AREA
 NOTE4. LOT INFORMATION IS SHOWN AS BELOW
 e.g. 4303 1
 PRODUCTION LINE No.
 PRODUCTION DATE (YMDD)

Unit: mm

| 符号 NO. | 名称 DESCRIPTION | 个数 QTY. | 材料 MATERIAL | 仕上 FINISH | 備考 REMARKS |
|--------|----------------|---------|--------------|-----------|------------|
| 7 | EJECT LEVER | 1 | STAINLESS | - | |
| 6 | EJECT BAR | 1 | STAINLESS | - | |
| 5 | DETECTION SW2 | 1 | COPPER ALLOY | TABLE 3 | |
| 4 | DETECTION SW1 | 1 | COPPER ALLOY | TABLE 3 | |
| 3 | COVER FRAME | 1 | STAINLESS | TABLE 3 | |
| 2 | HOUSING | 1 | LCP | - | |
| 1 | CONTACT | 6 | COPPER ALLOY | TABLE 3 | |

TABLE 1. PIN ASSIGNMENT

| | |
|----|-----|
| C1 | Vcc |
| C2 | RST |
| C3 | CLK |
| C5 | GND |
| C6 | Vpp |
| C7 | I/O |

TABLE 2. SWITCH CIRCUIT

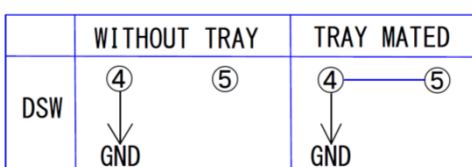
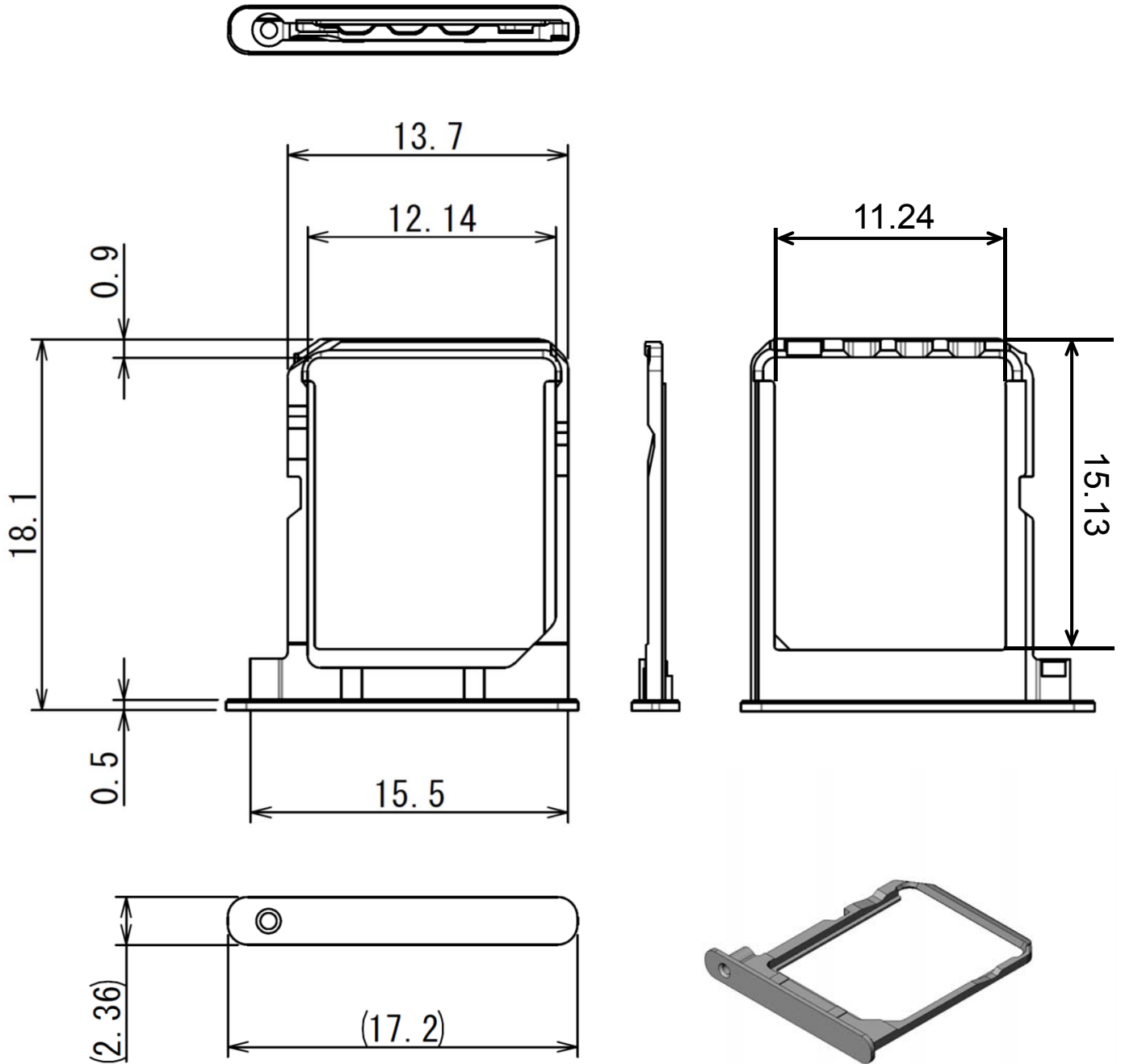


TABLE 3. FINISH

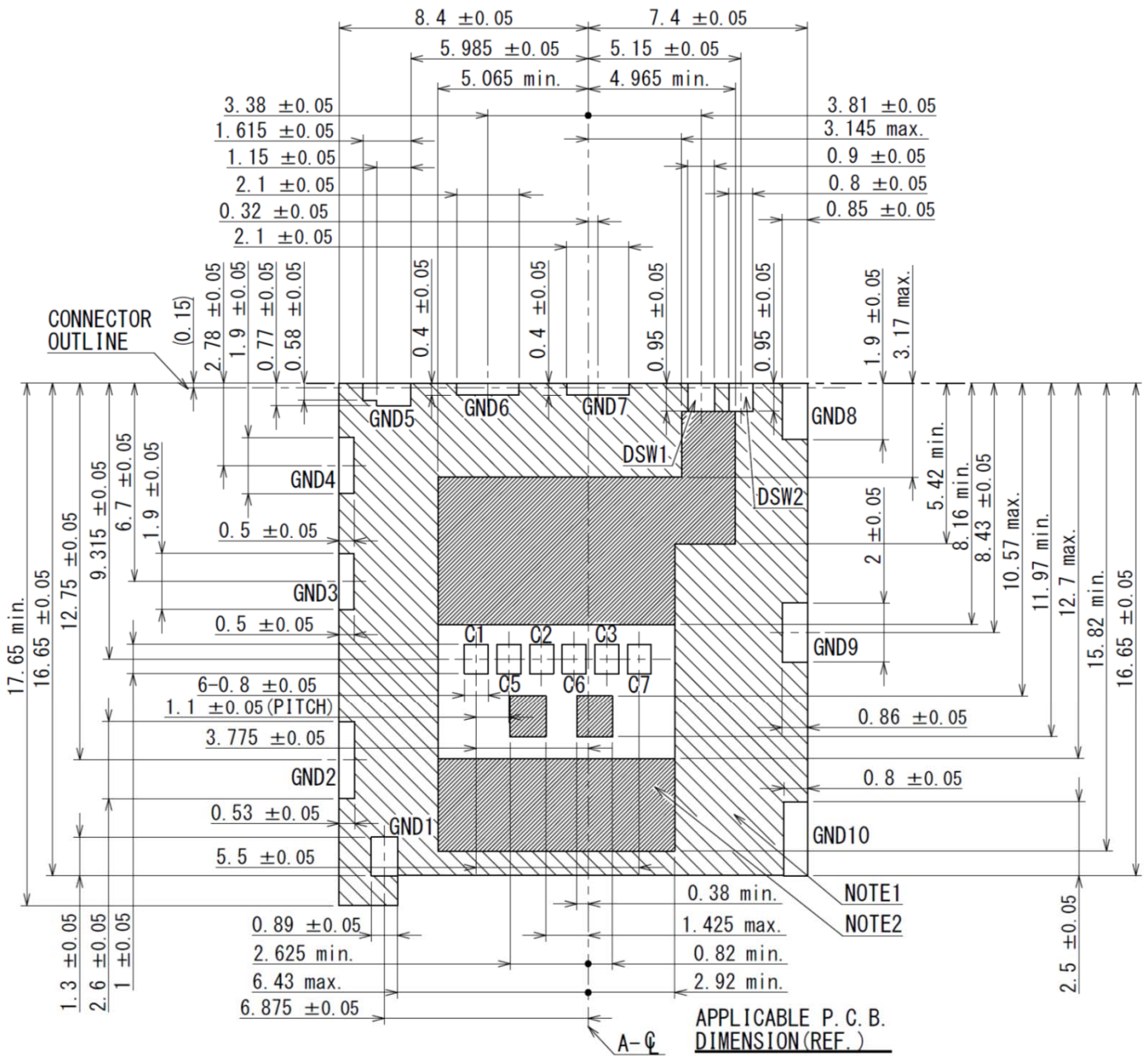
| PART No. | PART NAME | BASE PLATING [um] | TOP PLATING [um] | |
|----------|---------------|-------------------|------------------|---------------|
| | | | CONTACT AREA | TERMINAL AREA |
| 1 | CONTACT | Ni 1 min. | Au 0.3 min. | |
| 3 | COVER-FRAME | Ni 0.5 min. | - | Au 0.03 min. |
| 4 | DETECTION SW1 | Ni | Au 0.3 min. | |
| 5 | DETECTION SW2 | 1 min. | | |

Recommended Tray



Unit: mm

Note 1: Above are recommended dimensions for tray designed by customers.
 Note 2: Above drawing are for reference only. Please refer to the most updated drawing when considering use of this product.



NOTE1. ONLY GND PATTERN AND VIA HOLE IN ALLOWED IN THIS AREA
 NOTE2. NO PATTERN, VIA HOLE IN THIS AREA

Unit: mm

APPLICABLE P.C.B. DIMENSION(REF.)
 適合基板寸法(参考)

| |
|----------------|
| Drawing Number |
|----------------|

| | |
|----------------------|--|
| | Technical Document No. |
| Product Drawings | Individual Product: SJ114918 Reel Product: SJ114919 |
| Specification | JACS-10982 |
| Handling Instruction | JAHL-10982 |

Notice:

1. The values specified in this brochure are only for reference. The products and their specifications are subject to change without notice. Contact our sales staff for further information before considering or ordering any of our products. For purchase, a product specification must be agreed upon.
2. Users are requested to provide protection circuits and redundancy circuits to ensure safety of the equipment, and sufficiently review the suitability of JAE's products to the equipment.
3. The products presented in this brochure are designed for the uses recommended below. We strongly suggest you contact our sales staff when considering use of any of the products in any other way than the recommended applications or for a specific use that requires an extremely high reliability.
 - (1) Applications that require consultation:
 - (i) Please contact us if you are considering use involving a quality assurance program that you specify or that is peculiar to the industry, such as:
Automotive electrical components, train control, telecommunications devices (mainline), traffic light control, electric power, combustion control, fire prevention or security systems, disaster prevention equipment, etc.
 - (ii) We may separately give you our support with a quality assurance program that you specify, when you think of a use such as :
Aviation or space equipment, submarine repeaters, nuclear power control systems, medical equipment for life support, etc.
 - (2) Recommended applications include:
Computers, office appliances, telecommunications devices (terminals, mobile units), measuring equipment, audiovisual equipment, home electric appliances, factory automation equipment, etc

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