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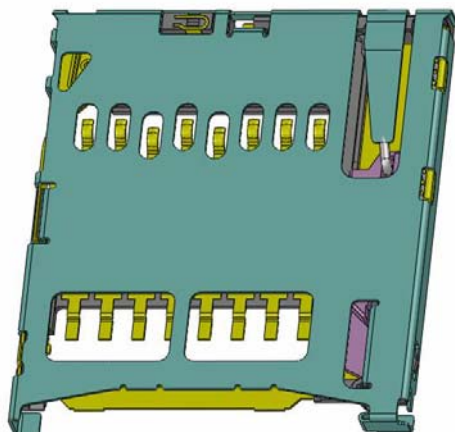


microSD™ Small Memory Card Connector CONNECTOR

ST10 Series

MB-0208-2

February 2012



RoHS Compliant

< Outline >

The ST10 Series are one-piece type external connectors for the micro SD™ card. They are high-density, SMT, push-push, standard mounting, low profile connectors compatible with the microSD™ card, standardized by SDA™ as a compact memory card for various portable devices.

* microSD™ is a trademark of SD Card Association.

Features

- Push-push structure, standard mounting type connector for microSD™ memory cards, standardized by SDA™.
- Balanced EMI countermeasure through 4 hold-down points
- Slim design with 1.25mm height, 13.2mm width, and 14.85mm depth (depth including card: 16.75mm)
- Halogen-free product; supplied in embossed tape for automatic mounting (compatible with second reflow)
- Card insertion detection structure (D-SW), normally open
- Card lock structure
- 1mm push stroke and 3.1mm card eject length
- Countermeasure to prevent the card from popping out.

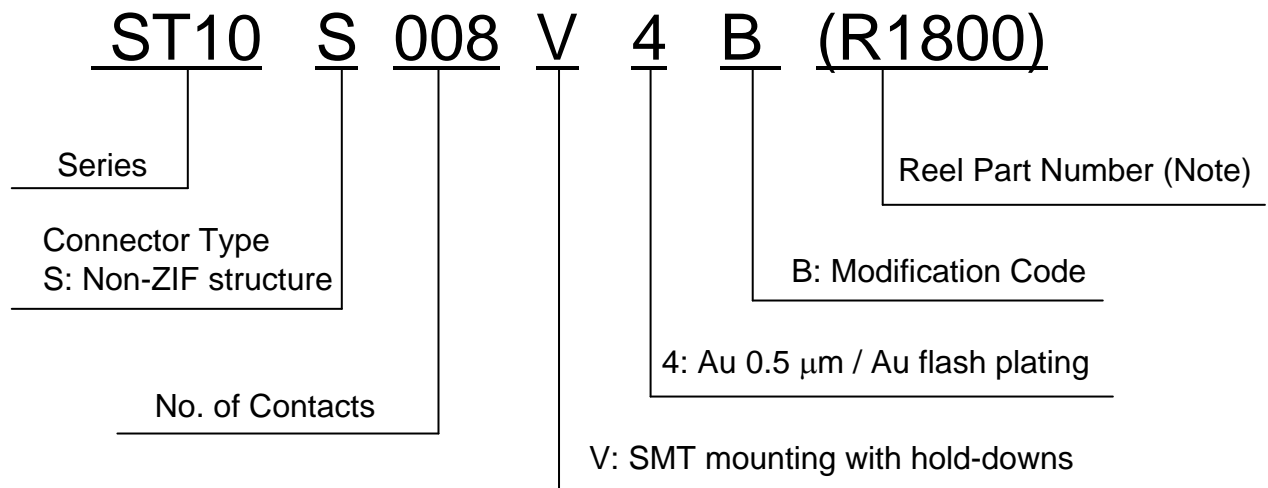
General Specifications

- | | |
|---|--|
| ■ No. of Contacts: 8 pos.+ 2pos. (D-SW) | ■ Rated Current: 0.5A / per pin |
| ■ Contact Resistance: 100m Ω max. | ■ Rated Voltage: 10V / per pin |
| ■ Dielectric Withstanding Voltage:
AC500Vr.m.s. per minute | ■ Insulation Resistance: 1,000M Ω min. |
| ■ Operating Temperature:
-25 Deg. C to +85 Deg. C | ■ Durability: 10,000 times |
| ■ Storage Temperature:
-10 Deg. C to +60 Deg. C | ■ Card Insertion Force: 40 N max. |

Materials and Finishes

Component	Material / Finish
Signal Contact	Copper alloy / Contact: 0.5µm min. Au plating over Ni Terminal: Au flash plating over Ni
Housing	Synthetic resin / No
Cover Frame	Stainless steel / Terminal area: Au flash plating over Ni
Eject Bar	Synthetic resin / None, Halogen-free material
Spring	Stainless steel / None
D-SW Contact	Same as signal contact
Lock	Stainless steel / None
Cam Follower	Stainless steel / None

Ordering Information



Note) An embossed tape reel contains 1,800 pcs.

Please contact us for details on embossed tape specifications.

Part Number	SJ Drawing
ST10S008V4B	SJ112391

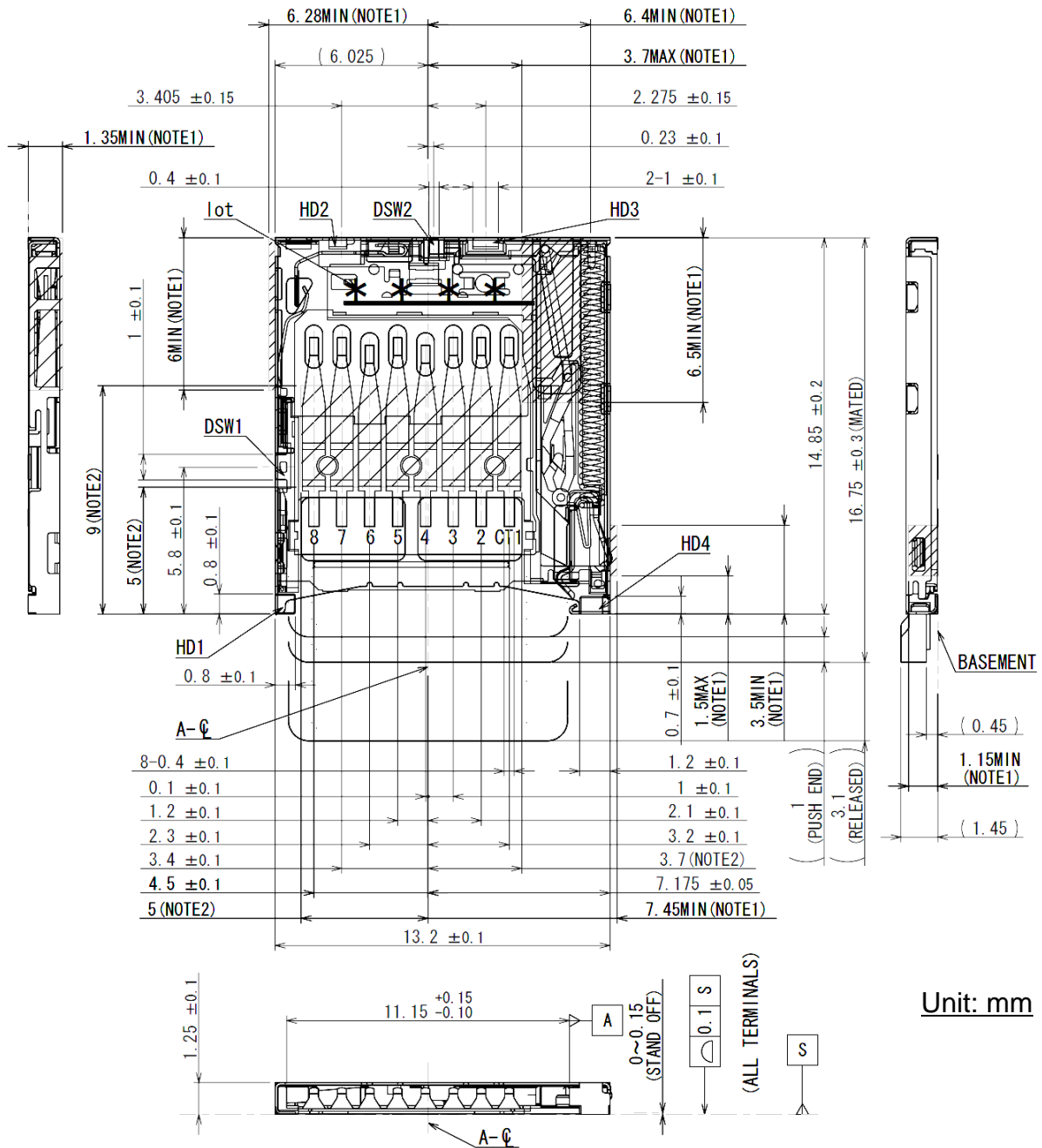
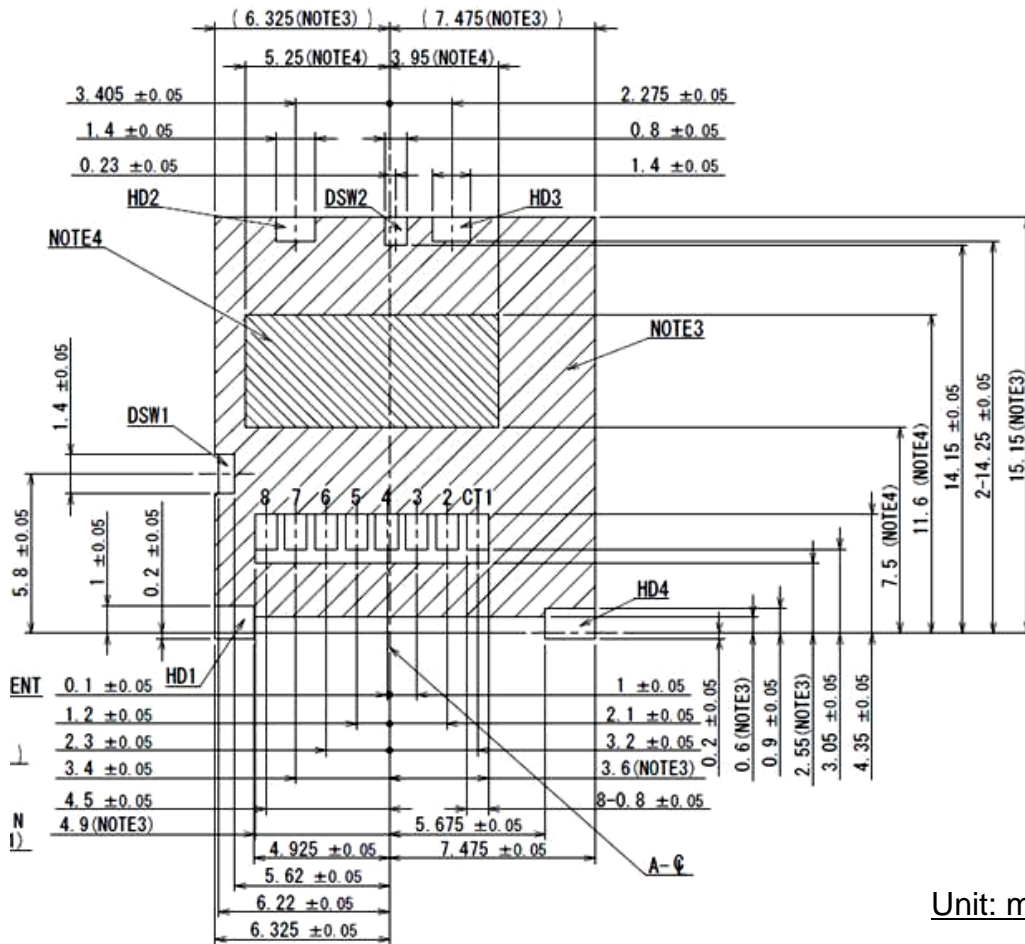


Table 1: Circuit

	Without Card	Card Inserted
Detection Switch		



Applicable Board Dimensions (for reference)

- Note 1. Do not apply force to this surface.
- Note 2. Vacuum area.
- Note 3. Bottom area is metal (ground) so only ground pattern and ground via hole are allowed in this area.
- Note 4. Pattern and via hole cannot be applied to this area due to moving parts.

Notice: Products shown in this brochure are made for the applications listed below. However, if the above-mentioned products are to be used in aerospace devices, marine cable-connection devices, atomic power control systems, medical equipment for life-support systems, or any other specific application requiring extremely high reliability, please contact JAE for further information.
 Recommended applications: Computers, Office machines, Measuring devices, Telecommunication devices (Terminals, Mobile devices), AV devices, Household applications, FA devices, etc.

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* The specifications in this brochure are subject to change without notice. Please contact JAE for information.