

NEW



microSD™ Small Memory Card Connector

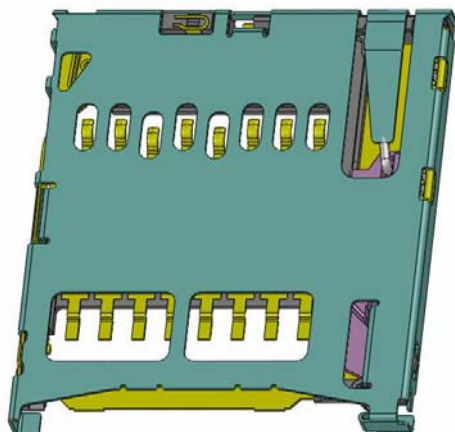
CONNECTOR

MB-0208-1

January 2010

ST10 Series

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 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.

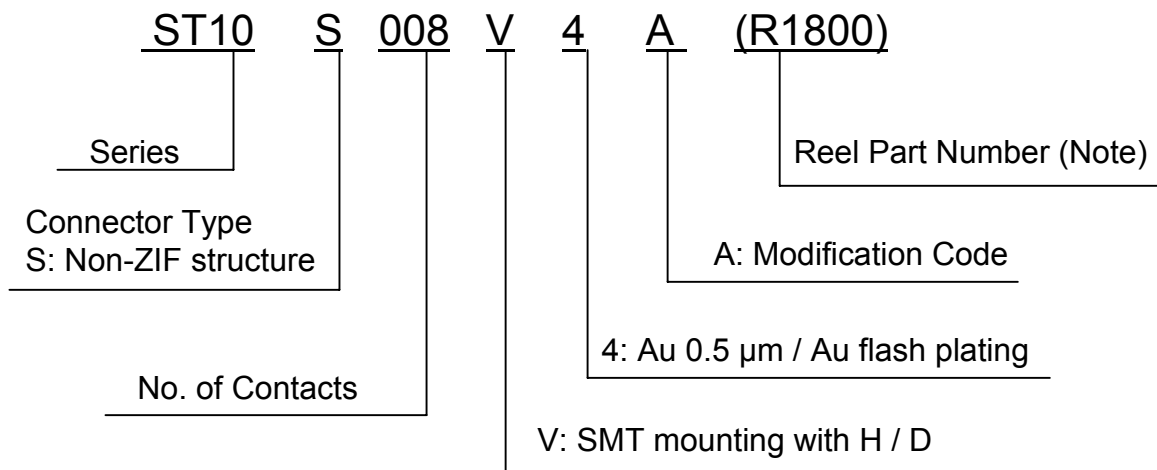
General Specifications

- | | |
|---|--|
| ■ No. of Contacts: 8 pos.+ 2pos. (D-SW) | ■ Rated Current: 0.5A/ per pin |
| ■ Contact Resistance: 100m ohm max. | ■ Rated Voltage: 10V/ per pin |
| ■ Dielectric Withstanding Voltage:
AC500Vr.m.s. per minute | ■ Insulation Resistance: 1,000M ohm 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: 0.5um min. Au plating over Ni Terminal: Au flash plating over Ni
Housing	Synthetic resin / No (UL94V-0)
Cover Frame	Stainless steel/ Terminal area: Au flash plating over Ni
Eject Bar	Synthetic resin / No (UL94V-0)
Spring	Stainless steel / None
D-SW Contact	Compliant with finish of signal contact
Lock	Stainless steel / None
Cam Follower	Stainless steel / None

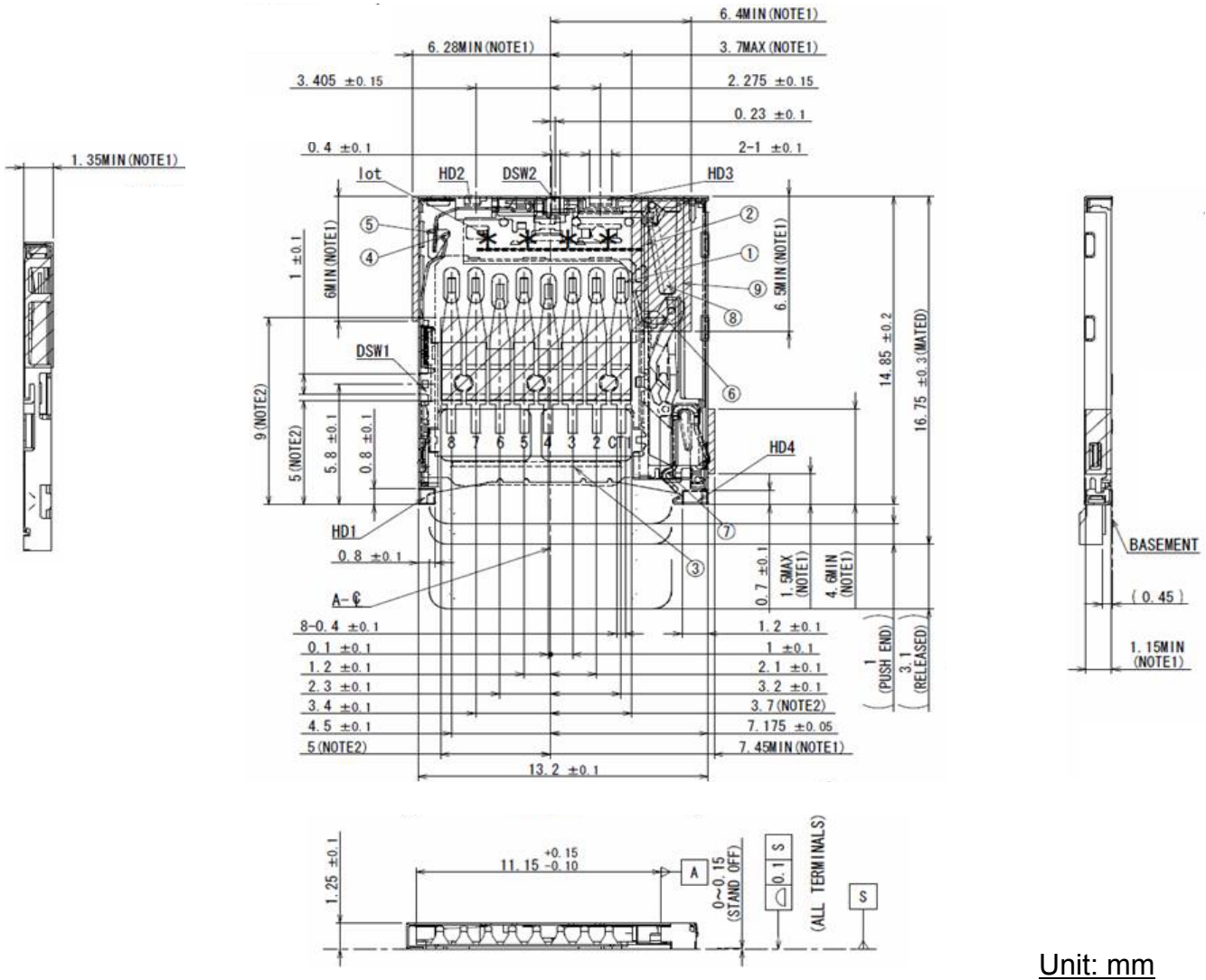
Ordering Information



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

Please contact us for details on embossed tape specifications.

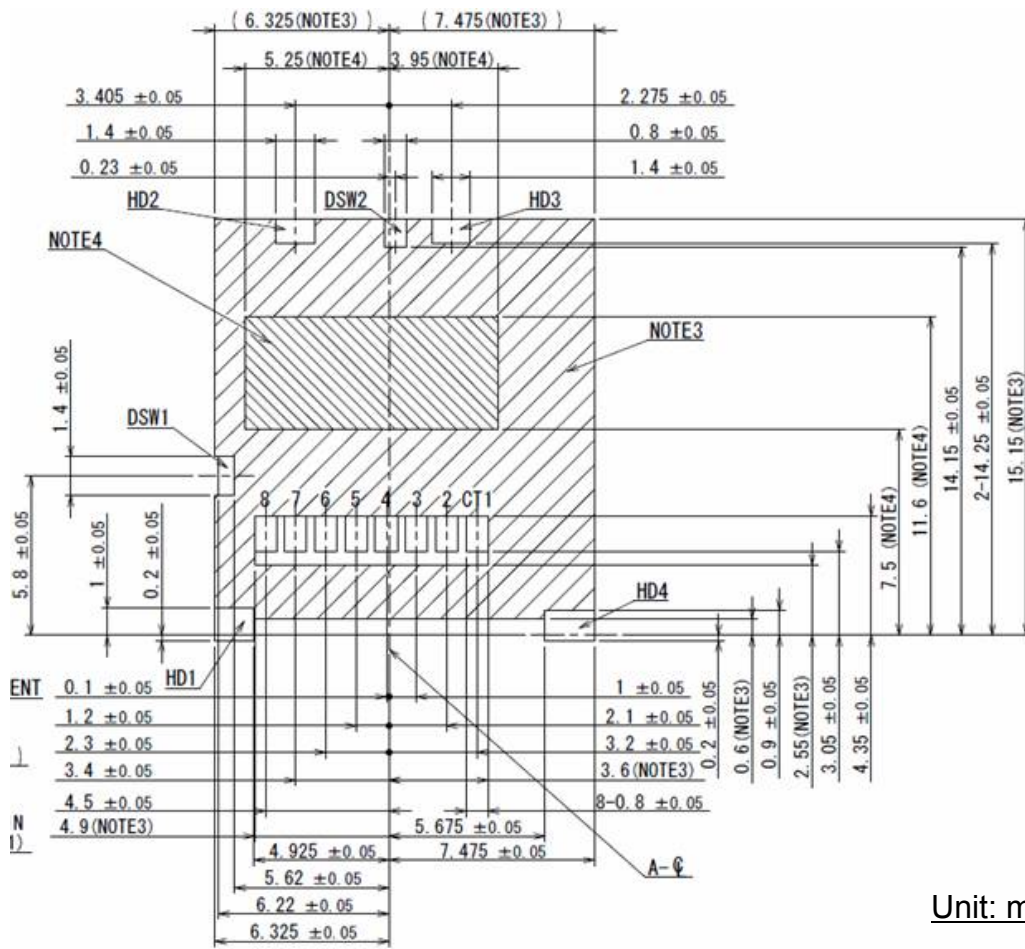
Part Number	SJ Drawing
ST10S008V4A	SJ109917



Unit: mm

Table 1: Circuit

	Without Card	Card Mated
Detection Switch	<p>④ — ○ — ○ — ⑤ ↓ GND</p>	<p>④ — ⑤ ↓ GND</p>



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 leaflet 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.

Japan Aviation Electronics Industry, Limited

Product Marketing Division
 Aobadai Building, 3-1-19, Aobadai, Meguro-ku, Tokyo 153-8539
 Phone: +81-3-3780-2763 FAX: +81-3-3780-2946