

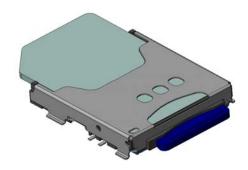


#### microSD<sup>™</sup> Memory Card and SIM Card Combo Connector

# **ST7 Series**

CONNECTOR
MB-0188-1
September 2008

### **RoHS Compliant**





The ST7 Series is a combo connector that simultaneously accepts a micro SD<sup>TM</sup> card in a push-push slot, and a GSM11.11 standard compatible Plug-in SIM card.

#### Features

- ■Combo connector compatible with slide-type GSM11.11 standard Plug-in SIM card, and reverse-mounting push-push structure compatible with the microSD<sup>TM</sup> card standardized by the SDA<sup>TM</sup>
- ■0.8mm push stroke and 3.3mm card eject length
- ■Card half lock structure
- ■Countermeasure to prevent the card from popping out
- ■Card insertion detection structure (D-SW), Normally open: micro SD<sup>TM</sup> and SIM card
- ■Shield feature is secured by 4 ground connection points
- ■Slim design with 3.2mm height, 17.8mm width, and 20.5mm depth (depth including card: 27.25mm)
- ■Supply for automatic mounting in embossed tape (Compatible with second reflow)

#### General Specifications

- ■No. of contacts :14 pos.+2pos. (D-SW)
- ■Contact resistance: 100m ohm max.
- ■Dielectric withstanding voltage : AC500Vr.m.s. per minute
- ■Operating temperature:
  - -25 Deg. C to +85 Deg. C
- ■Storage temperature:
  - -10 Deg. C to +60 Deg. C

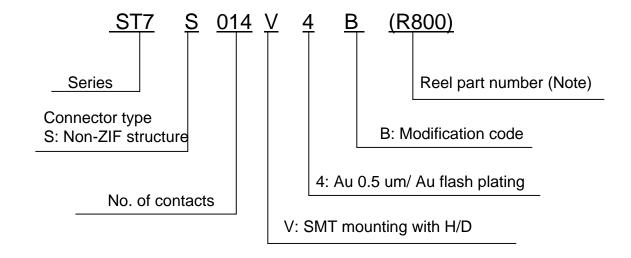
- ■Rated current: 0.5A/ per pin
- ■Rated voltage: 10V/ per pin
- ■Insulation resistance: 1000M ohm min.
- ■Lifetime: Plug-in SIM: 5,000 times
  - micro SD<sup>TM</sup>: 10,000 times
- ■Temperature rise: 30 Deg. C rise max.

<sup>\*</sup> microSD<sup>TM</sup> is a trademark of SD Card Association.

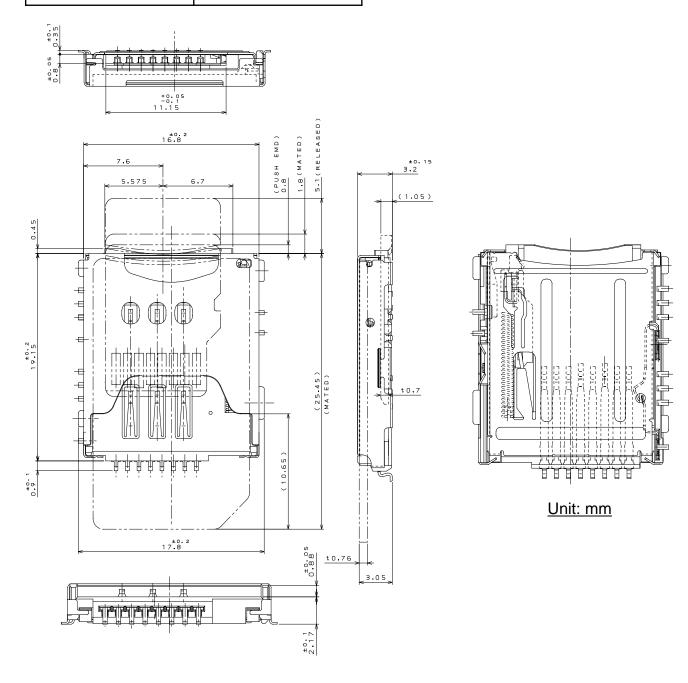
#### Materials and Finishes

Components	Material /Finish	
Signal contact	Copper Alloy/	
(microSD, SIM	Contact: 0.5um min. Au plating over Ni	
in common)	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	Plating: Compliant to finish of signal contact	
Lock	Stainless steel/ None	
Cam follower	Stainless steel/ None	

## **Ordering Information**

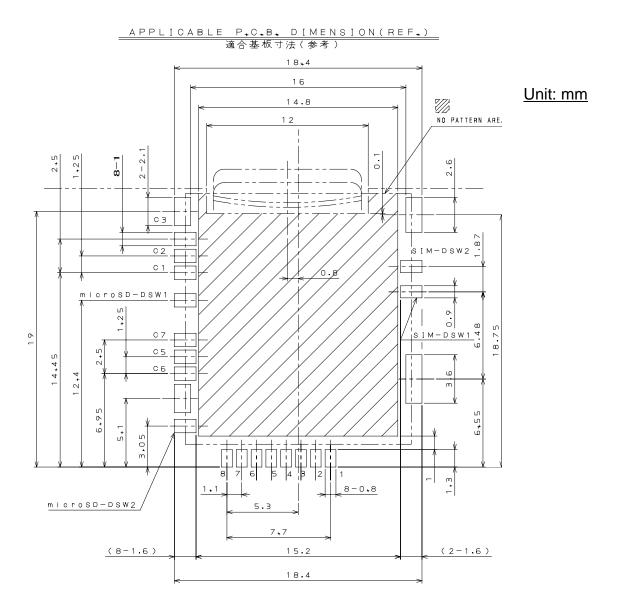


Part Number	SJ Drawing
ST7S014V4B	SJ108850



# TABLE1 Circuit [Detection Switch]

	WITHOUT CARD	CARD MATED
microSD	7—0 0—8 V G N D	7 V G N D
SIM	12 0 0 13 V G N D	(12) (13) V G N D



# <u>Applicable board dimensions</u> <u>(for reference)</u>

Note) An embossed tape reel contains 800 pcs.

Please contact us for details on embossed tape specifications.

### Japan Aviation Electronics Industry, Limited

Product Marketing Division

Aobadai Building, 3-1-19, Aobadai, Meguro-ku, Tokyo 153-8539 Phone: +81-3-3780-2787 FAX: +81-3-3780-2946 **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.

<sup>\*</sup> The specifications in this brochure are subject to change without notice. Please contact JAE for information. JAE PMK Div. Proprietary. Copyright © 2008. Japan Aviation Electronics Industry. Ltd.