

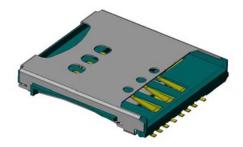


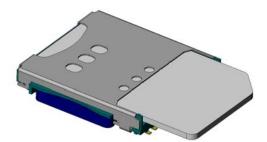
microSD<sup>™</sup> Memory Card and SIM Card Combo Connector

# **ST5 Series**

CONNECTOR MB-0167-1 March 2007

## **RoHS Compliant**





#### < Outline >

The ST5 Series are combo connectors with one-piece type external connectors for micro SD<sup>TM</sup> card and GSM11.11 standard compatible Plug in SIM card.

\* microSD<sup>TM</sup> is a trademark of <u>SD</u> Card <u>A</u>ssociation.

#### Features

- ■Combo connector compatible with slide type GSM11.11 standard Plug-in SIM card and reverse mounting push-push structure microSD<sup>TM</sup>, standardized by the SDA<sup>TM</sup>.
- ■With 1mm push stroke and 3.3mm card eject length.
- ■With card half lock structure
- ■With a countermeasure to prevent the card from popping out.
- ■Card insertion detection structure (D-SW), Normally open
- ■Shield characteristic is secured by the 4 ground connection points.
- ■Slim design with 2.8mm height, 17.35mm depth and 19.2mm width (depth including card: 19.2mm x 26mm)
- ■Supply for automatic mounting in embossed tape (Compatible to 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

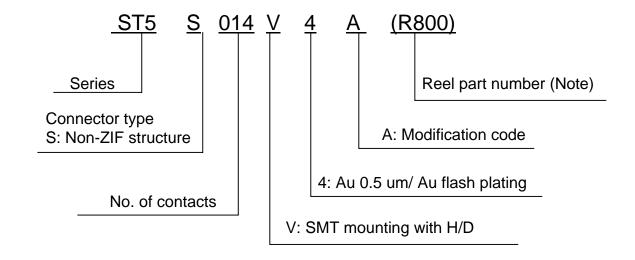
- ■Operating temperature:
  - -25 Deg. C to +85 Deg. C
- ■Storage temperature:
  - -10 Deg. C to +60 Deg. C

- ■Rated current: 0.5A/ per pin
- ■Rated voltage: 10V/ per pin
- ■Insulation resistance: 1000M ohm min.
- ■Lifetime: 5,000/ 10,000 times
- ■Temperature rise: 30 Deg. C rise max.

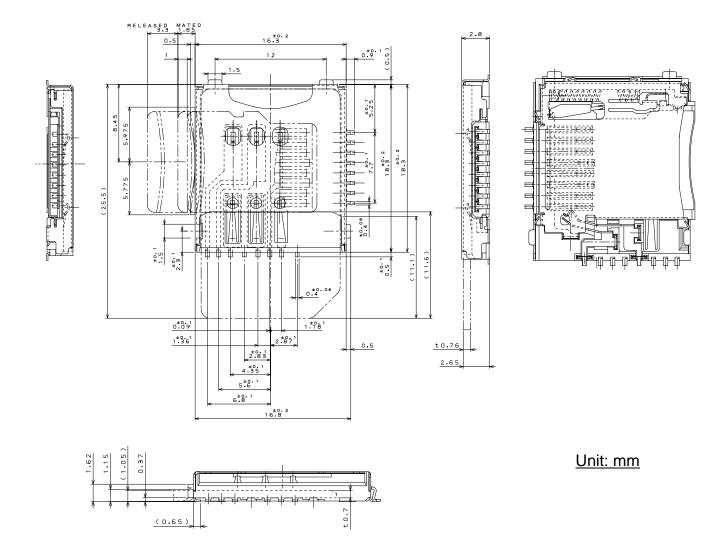
#### Materials and Finishes

Components	Materials /Finishes		
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

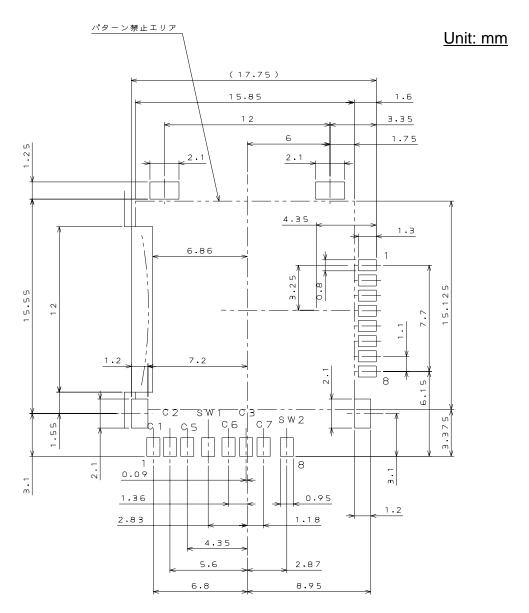


Part Number	SJ Drawing		
ST5S014V4A	SJ107381		



# TABLE 1.CIRCUIT (REF.)

	WITHOUT	CARD	CARD	INSERTED	
DETECTION SWITCH	5 o	6	5	6	



# Applicable board dimensions (for reference)

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

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 © 2007. Japan Aviation Electronics Industry. Ltd.