



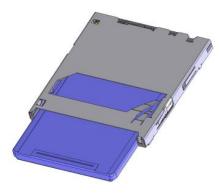
SD™ Memory Card Connector

SG6 Series

CONNECTOR MB-0169-3 August 2009

RoHS Compliant





< Outline >

The SG6 Series are mechanical push-push, top mounting type connectors for SD[™] cards.

* SDTM is a trademark of the SD Card Association.

Features

- ■Top mounting type connector for SDTM memory cards standardized by SDATM
- ■Compact and slim, mechanical push-push structure minimizes mounting space
- ■User-friendly, with 1mm push stroke and 8mm card eject length
- ■Card friction locking function (Multimedia card cannot be locked)
- ■Compatible with Multimedia card
- ■SD card write protection switch with lock/unlock detection mechanism
- ■Balanced EMI control by 4 hold-down points
- ■Slim design with 2.8mm height, 29.3mm depth (depth including card: 34.3mm) and 27.2mm width
- ■Card insertion detection structure
- ■In embossed tape for automatic mounting (compatible with second reflow)

General Specifications

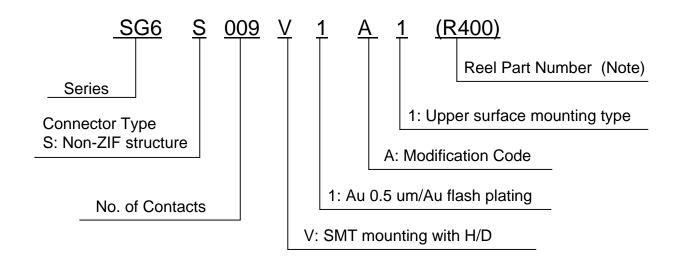
- ■No. of Contacts: 9 pos +3 pos (D-SW)
- ■Contact Resistance: 100m ohm max.
- ■Dielectric Withstanding Voltage : AC500Vr.m.s. per minute
- ■Operating Temperature:
 - -25 Deg. C to +85 Deg. C
- ■Storage Temperature:
 - -40 Deg. C to +85 Deg. C

- ■Rated Current: 0.5A/ per pin
- ■Rated Voltage: 3.3V
- ■Insulation Resistance: 1000M ohm min.
- ■Lifetime: 10,000 times
- ■Temperature Rise: 30 Deg. C rise 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	Housing Synthetic resin/No (UL94V-0)	
Cover Frame	Frame Stainless steel/Terminal area: Au flash plating over Ni	
Eject Bar	Synthetic resin/No (UL94V-0)	
Spring	Stainless steel/No	
D-SW Contact	Same as signal contact	
Card Lock	Card Lock Stainless steel/No	
Cam Follower	Stainless steel/No	
Protect SW	Same as signal contact	

Ordering Information

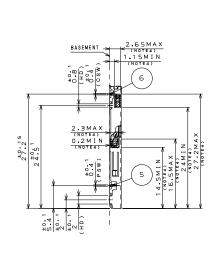


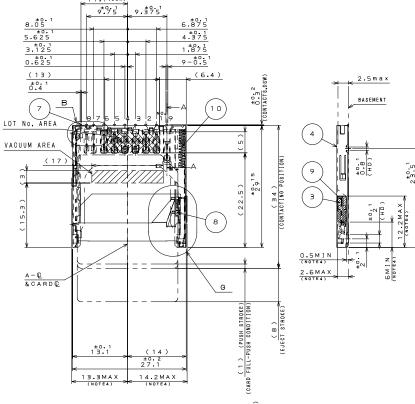
Note) An embossed tape reel contains 400 pcs.

Please contact us for details on embossed tape specifications.

Part Number	SJ Drawing
SG6009V1A1	SJ106171







Unit: mm

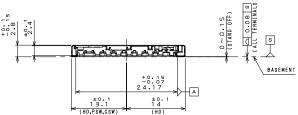
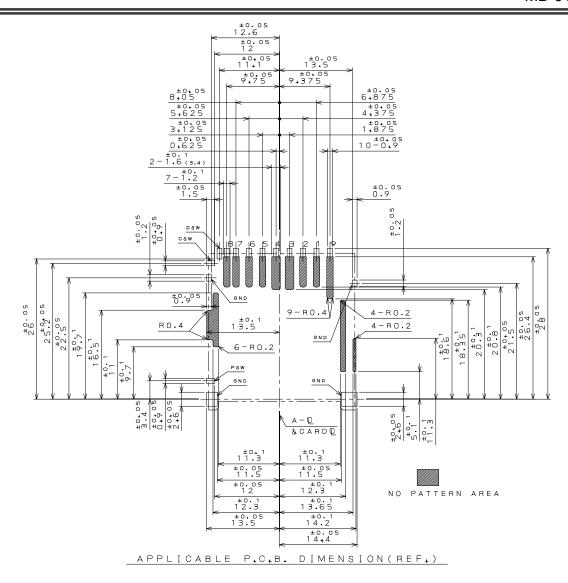


TABLE1.CIRCUIT(REF.)

WITHOUT CAF		CARD INSERTED	
	WITHOUT CARD	WRITE PROTECT: LOCK PROTECT: UNLOCK	
PROTECT SWITCH	5-0 0-6 VGND	5 0 6 5 6 VGND	
DETECTION SWITCH	6 0 0 7 VGND	6 7 V G N D	



NOTE1.Card Frictional locking function is available for inserted SD card only but not for MMC.

NOTE2.This connector is designed to be mounted on the hard PC board.

NOTE3.CIRCUIT(TABLE.1)(REFERENCE)

NOTE4.No parts in this area.

NOTE5.Cover Frame Gold Flash Area. No plating from top view.

NOTE6.The height of indicated area, when the card (max thickness of specification) inserted is less than 3.05mm

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Product Marketing Division

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

^{*} The specifications in this brochure are subject to change without notice. Please contact JAE for information. JAE PMK Div. Proprietary. Copyright © 2009. Japan Aviation Electronics Industry. Ltd.