

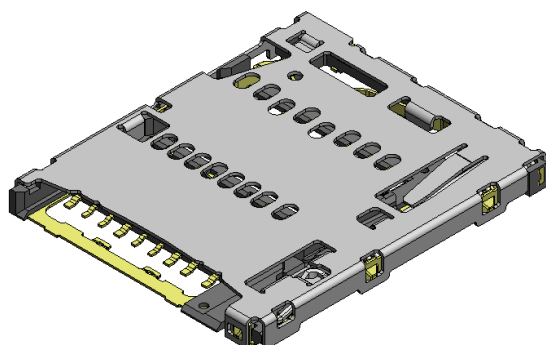
UHS-II Compatible microSD™ Card Connector

CONNECTOR

ST50 Series

MB-0325-2

Dec.2021

RoHS Compliant

Micro SD cards are widely used as an external storage medium for compact devices such as smartphones, cameras, tablets, and notebook PCs. Recently high-speed reading and writing requirement are increasing to allow the transfer of large image and video files, and also to install and run apps(aplications) on smartphones.

Due to the increasing user demand, microSD cards compatible with the memory card standard UHS-II with maximum data writing speed up to 312MB/s, are becoming widespread.

The ST50 Series is a push-push connector compatible with the UHS-II microSD cards.

Applicable Market

Mobile phones, smartphones, cameras, tablet PCs, notebook PCs, and other small portable devices

Features

- Compatible with microSD card Ultra High Speed data transfer standard UHS-II.(Backwards compatible with UHS-I microSD card and other existing microSD cards)
- Compact slim design, 16.3mm depth, 13.7mm width, 1.35mm height
- Push-push type card eject method.
- Maintaining good operability with the long card eject length(3.0mm min.)
- Includes card detection switch (normally-closed types)
- 8-point hold downs for heat-emission.

* microSD™ is a trademark of **SD** Card **A**ssociation

General Specifications

Number of Contacts	17 positions
Insulation Resistance	100MΩ min. (initial)
Dielectric Withstanding Voltage	AC500V rms. for 1 minute
Durability	5,000 mating cycles
Operating Temperature Range	-25 ~ +85°C
Rated Current	0.5A
Rated Voltage	10 V

Materials and Finishes

Components	Materials	Finishes
Signal Contact	Copper alloy	Au plating over Ni (Contact area) Au plating over Ni (Board mounting area)
Housing	Heat-resistant plastic	
Cover Frame	Stainless steel	Au plating over Ni (Board mounting area)
Detection Switch	Copper alloy	Au plating over Ni (Contact area) Au plating over Ni (Board mounting area)
VDD2 Switch	Copper alloy	Au plating over Ni (Contact area) Au plating over Ni (Board mounting area)
Eject Bar	Heat-resistant plastic	
Lock	Stainless steel	
Spring	Stainless steel	
Cam Follower	Stainless steel	

Ordering Information

ST50 S 017 V C A R * * * *

Series

Connector Type
S: Non-ZIF structure

No. of Contacts

Reeled Part Number (Note)

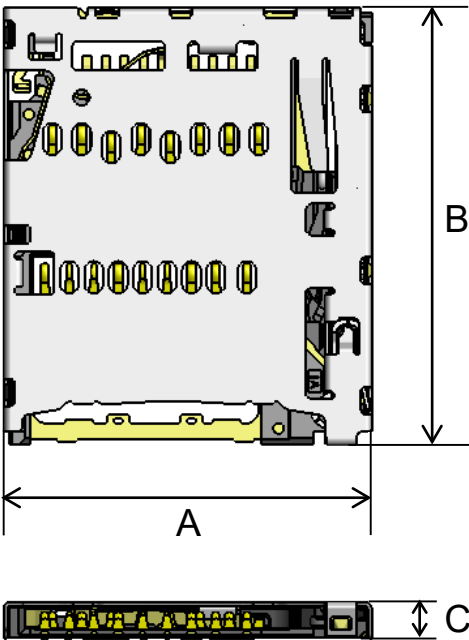
Modification Code
A: Eject bar material (9TNy)
B: Eject bar material (LCP)

Plating Specification
C: Au / Au flash plating

Connection Type
V: SMT mounting with hold-downs

Note) An embossed tape reel contains 1,800 pcs.
Please contact us for details on embossed tape specifications.

Outer Dimensions



Unit: mm

Dimensions Product name	Dimensions		
	A	B	C
ST50S017VCA	13.7	16.3	1.35
ST50S017VCB	13.7	16.3	1.35

Product Drawings and Specifications

Part Number	Drawing Number	Specifications	Handling Instructions
ST50S017VCAR1800	SJ117915(Individual Product)	JACS-11173	JAHL-11173
	SJ117916(Reeled Product)		
ST50S017VCBR1800	SJ121719(Individual Product)		
	SJ121720(Reeled Product)		

Notice:

1. The values specified in this brochure are only for reference. The products and their specifications are subject to change without notice. Contact our sales staff for further information before considering or ordering any of our products.
For purchase, a product specification must be agreed upon.

2. Users are requested to provide protection circuits and redundancy circuits to ensure safety of the equipment, and sufficiently review the suitability of JAE's products to the equipment.

3. The products presented in this brochure are designed for the uses recommended below.
We strongly suggest you contact our sales staff when considering use of any of the products in any other way than the recommended applications or for a specific use that requires an extremely high reliability.

(1) Applications that require consultation:

- (i) Please contact us if you are considering use involving a quality assurance program that you specify or that is peculiar to the industry, such as:
Automotive electrical components, train control, telecommunications devices (mainline), traffic light control, electric power, combustion control, fire prevention or security systems, disaster prevention equipment, etc.
- (ii) We may separately give you our support with a quality assurance program that you specify, when you think of a use such as :
Aviation or space equipment, submarine repeaters, nuclear power control systems, medical equipment for life support, etc.

(2) Recommended applications include:

Computers, office appliances, telecommunications devices (terminals, mobile units), measuring equipment, audiovisual equipment, home electric appliances, factory automation equipment, etc.

Japan Aviation Electronics Industry, Limited

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