



v1.1

# ST10 Series Push-Push Type Micro SD™ Card Connector

Connector Training Module



## Application Examples

- Mobile/ Smartphone
- Tablet
- E-Readers
- Digital Camera
- Other devices with Micro SD



# ST10 Series Overview

The ST10 Series are one-piece type external connectors for the microSD™ card. They are high-density, standard mount, push-push type, low-profile connectors compatible with the microSD™ card, standardized by SDA™ as a compact memory card for various portable devices.



# ST10 Series Features

## Space-Saving, Low-Profile

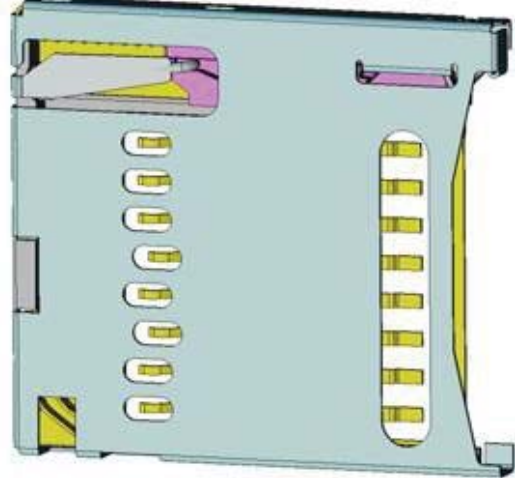
- Standard mounting type connector (SMT) for microSD™ cards
- Push-Push structure
- Balanced EMI control through 4 down-down grounding points
- Slim design with 1.25mm height, 14.85mm depth, 13.2mm width
  - (Depth including microSD™ card is 16.75mm)
- Compatible with second reflow due to reduced weight
  - After surface solder reflow (back surface reflow also possible)
- Card detection switch
- Special mechanism prevents card from popping out
- Strong drop impact resistance
- Push stroke: 1mm, card eject length: 3.1mm
- Supplied in embossed tape for automatic mounting
- Halogen-free/RoHS compliant

# General Specifications

<b>No. of Contacts</b>	8 pos + 2pos
<b>Dimensions (mm)*1</b>	H: 1.35 x W: 13.2 x D: 14.85
<b>Contact resistance</b>	100m $\Omega$ max.
<b>Insulation Resistance</b>	1,000m $\Omega$ max.
<b>Dielectric Withstanding Voltage</b>	AC500 Vr.m.s. per minute
<b>Operating Temperature Range</b>	-25 to + 85 °C
<b>Storage Temperature</b>	-10 to + 60 °C
<b>Rated Current</b>	0.5A /per pin
<b>Rated Voltage</b>	10V/per pin
<b>Mating Durability</b>	10,000 times
<b>Card Insertion Force</b>	Maximum 40N

# Materials and Finishes

Component	Material / Finish
Signal Contact	Copper alloy / Contact: 0.5µm min. Au plating over Ni Terminal: Au flash plating over Ni
Housing	Synthetic resin / No
Cover Frame	Stainless steel / Terminal area: Au flash plating over Ni
Eject Bar	Synthetic resin / None, Halogen-free material
Spring	Stainless steel / None
D-SW Contact	Same as signal contact
Lock	Stainless steel / None
Cam Follower	Stainless steel / None



## Summary

- One-piece type internal connectors for the microSD™ card.
  - High-density, SMT, hinge style, low-profile connectors
  - Card detection switch option available
  - Shield is secured by 4 ground connection points on the hinge cover
  - Slim design to occupy minimal space
  - Lock structure to enhance reliability
  - Lead-free, halogen-free product (RoHS compliant)
-



**Technology to Inspire Innovation**

