

# 3M™ Card Connector SD™

Normal Polarization, Push-Push, Surfacemount

SD Series



- Low profile, light weight, and small size
- Compatibility with both SD card and multimedia card formats
- Smooth push–push eject mechanism
- Write protect switch indicator
- Card polarization
- Card detection indicator
- Metal–shielded cover
- Meets SD Card Association standards for known compatibility and reliability
- Connector has a 10,000 cycle reliability
- Connector has an internal mechanical restraint providing added card retention
- RoHS\* compliant

Date Modified: November 28, 2006

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## Physical

**Insulation Material:** High Temperature Thermoplastic

Flammability: UL 94V-0

Color: Black

**Contact Material:** Copper Alloy

**Contact Plating**

Underplating: 50  $\mu$ " [ 1.27  $\mu$ m ] min. Nickel

Wiping Area: 10  $\mu$ " [ 0.25  $\mu$ m ] min. Gold

Termination Area: 100  $\mu$ " [ 2.54  $\mu$ m ] max. Matte-Tin

**Cover Material:** Stainless Steel

Underplating: 50  $\mu$ " [ 1.27  $\mu$ m ] min. Nickel

Solder Area: 10  $\mu$ " [ 0.25  $\mu$ m ] min. Gold over Nickel on solder peg area

**Lock Pin and Link Pin Material:** Stainless Steel

**Spring Material:** Copper Alloy

Plating: 3  $\mu$ " [ 0.08  $\mu$ m ] min. Nickel

**Marking:** 3M Logo

## Electrical

**Current Rating:** 0.5 A

**Insulation Resistance:** 1000 M $\Omega$  min.

**Withstanding Voltage:** 500 V<sub>AC</sub> for one minute

**Operating Voltage:** 3.6 V<sub>AC</sub>

## Environmental

**Process Rating:** Maximum 250°C, with 40 seconds over 230°C

**Operating Temperature:** -25°C to +85°C

**Storage Temperature:** -40°C to +85°C

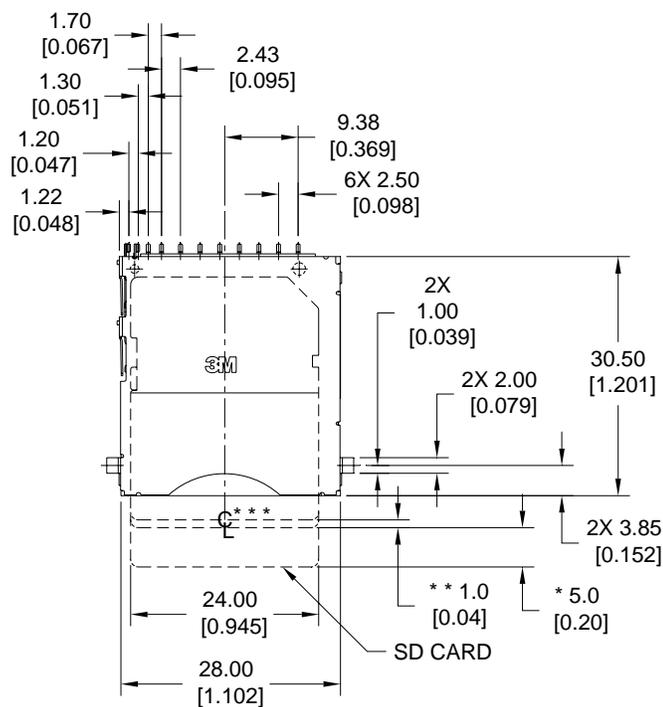
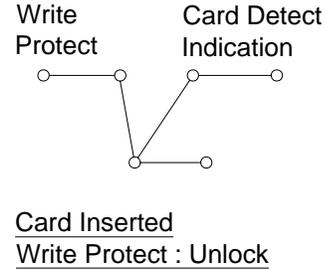
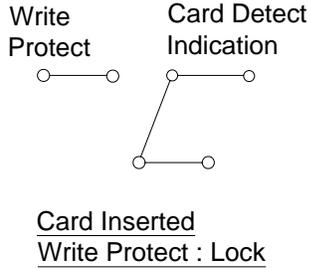
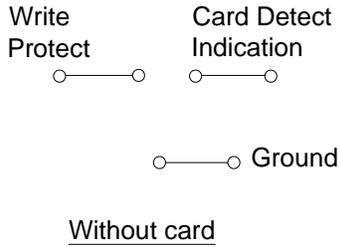
\*\*RoHS compliant\*\* means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's knowledge and belief based upon information provided by third party suppliers to 3M.  
SD is a trademark of SD Association in Japan.

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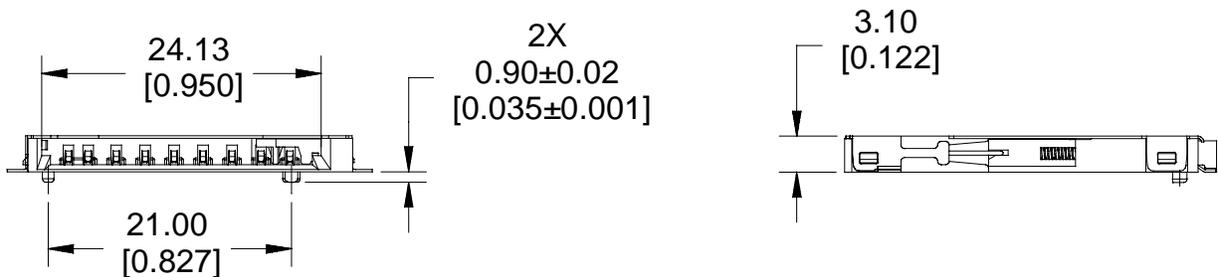
Circuit :



mm  
[inch]

Tolerance Unless Noted			
	.0	.00	.000
mm	± .38	± .25	

[ ] Dimensions for Reference Only



Notes:

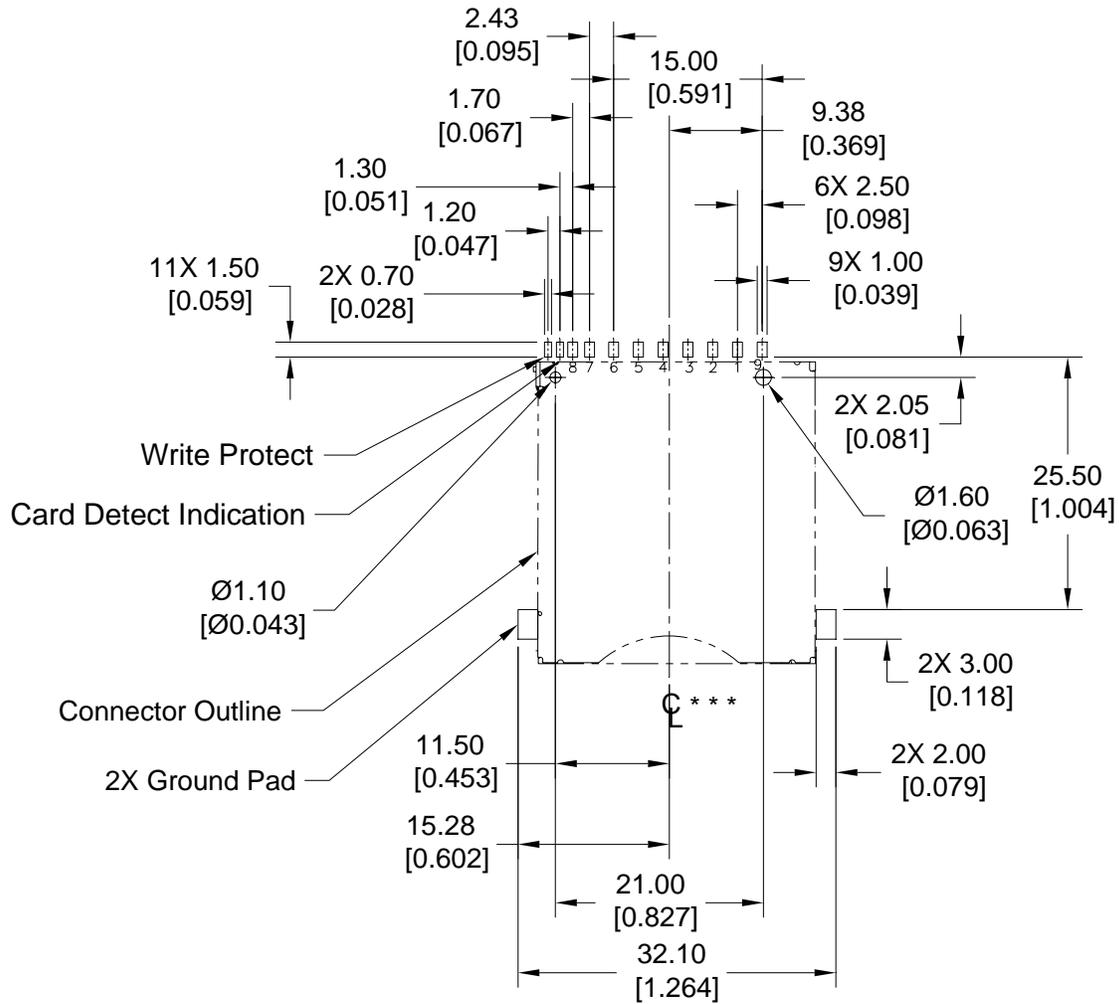
- \* Card fully ejected position
- \*\* Card in locked position
- \*\*\* Card fully pushed in

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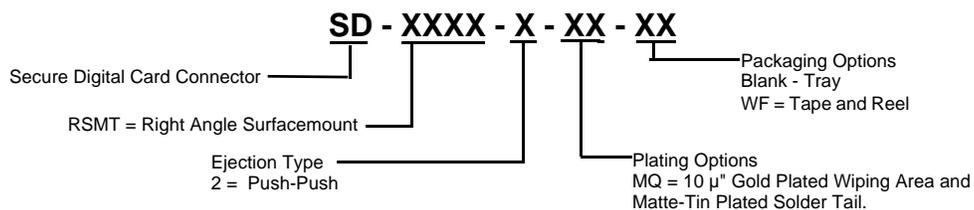
SD Series



Recommended PCB Hole & Pad Layout  
Top View [Tol ± 0.05 [0.002]]

Note:  
\*\*\* Center Line of Card

## Ordering Information



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Minimum 10%  
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