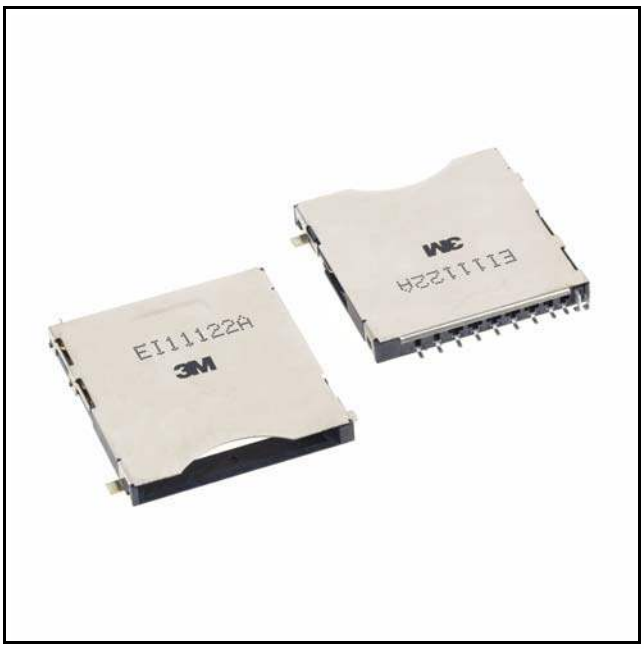
3M™ Card Connector SD™

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

Physical

Insulation Material:	High Temperature Thermoplastic
Flammability:	UL 94V-0
Color:	Black
Contact Material:	Copper Alloy
Contact Plating	
Underplating:	50 µ″ [1.27 µm] min. Nickel
Wiping Area:	10 µ″ [0.25 µm] min. Gold
Termination Area:	100 µ″ [2.54 µm] max. Matte-Tin
Cover Material:	Stainless Steel
Underplating:	50 µ″ [1.27 µm] min. Nickel
Solder Area:	10 µ″ [0.25 µm] min. Gold over Nickel on solder peg area
Lock Pin and Link Pin Material:	Stainless Steel
Spring Material:	Copper Alloy
Plating:	3 µ″ [0.08 µm] min. Nickel
Marking:	3M Logo

Electrical

Current Rating:	0.5 A
Insulation Resistance:	1000 MΩ min.
Withstanding Voltage:	500 $_{VAC}$ for one minute
Operating Voltage:	3.6 $_{VAC}$

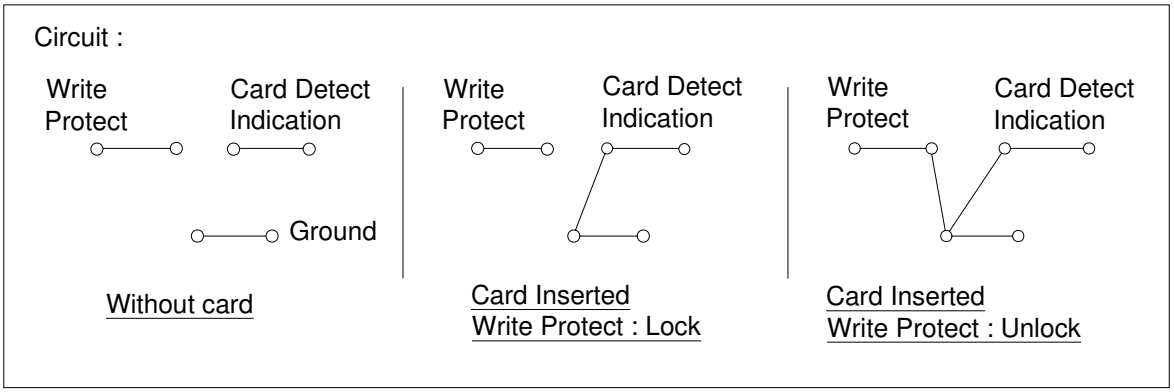
Environmental

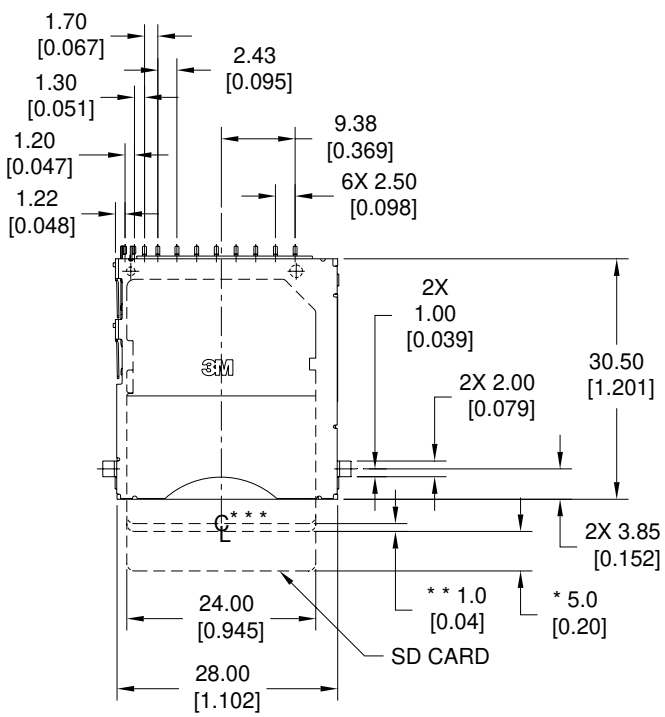
Process Rating:	Maximum 250°C, with 40 seconds over 230°C
Operating Temperature:	-25°C to +85°C
Storage Temperature:	-40°C to +85°C

*"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.

3M™ Card Connector SD™

Normal Polarization, Push-Push, Surfacemount SD Series

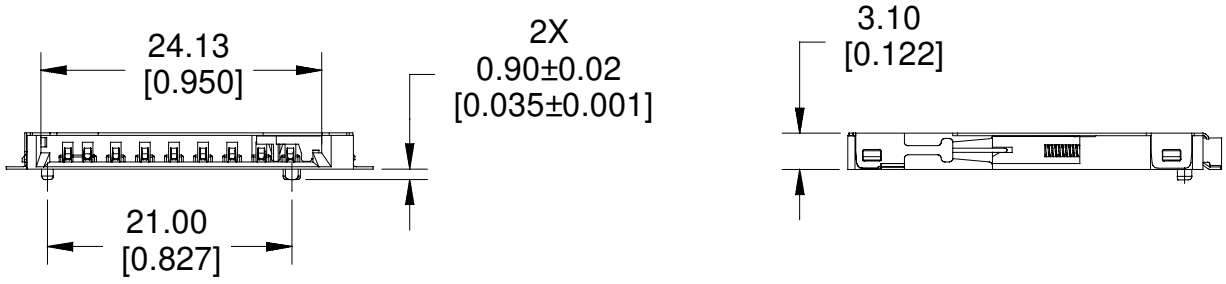




mm
[inch]

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

[ ] Dimensions for Reference Only



Notes:

* Card fully ejected position

** Card in locked position

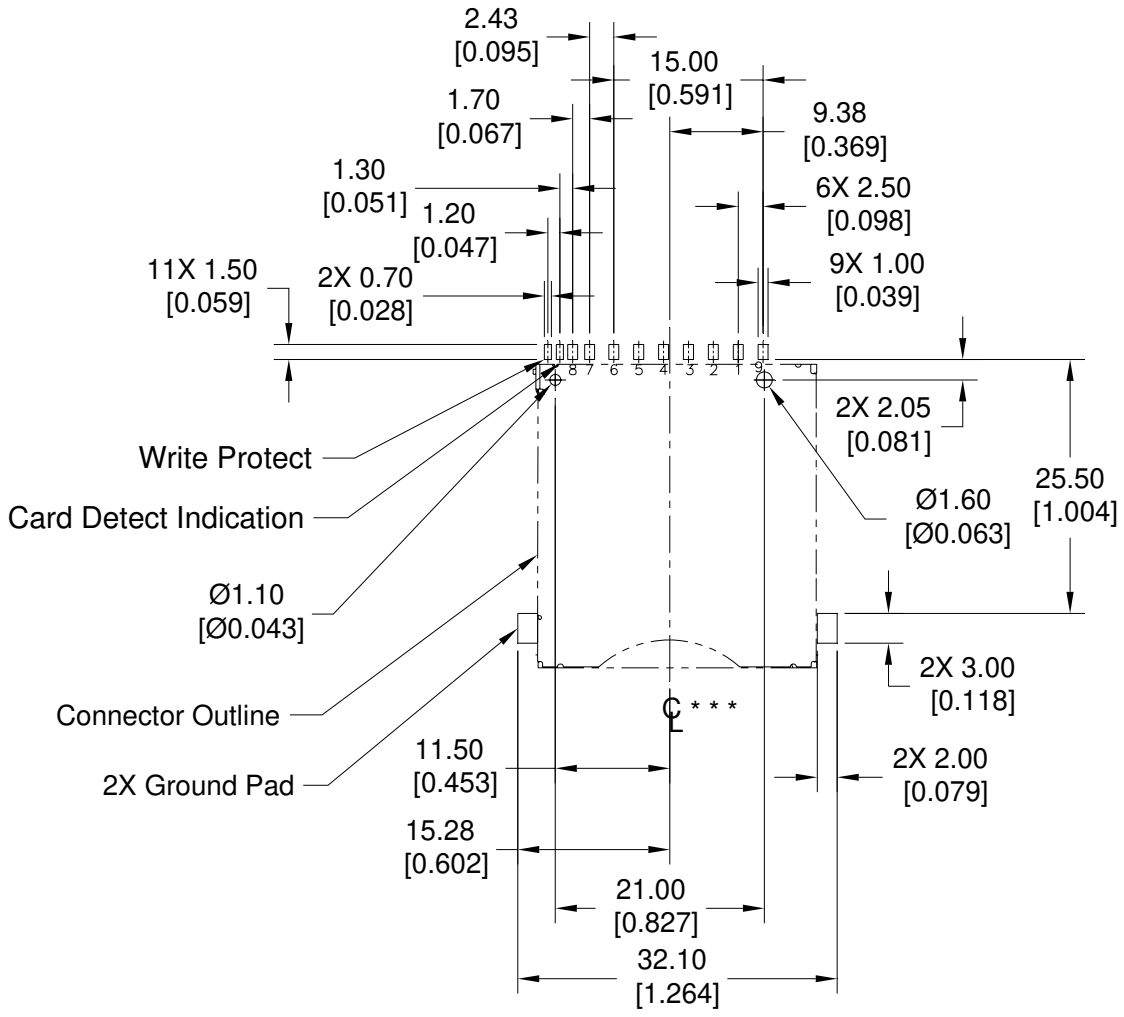
*** Card fully pushed in

TS-2198-01
Sheet 2 of 3

For technical, sales or ordering information call
800-225-5373

3M™ Card Connector SD™

Normal Polarization, Push-Push, Surfacemount SD Series



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

Note:
*** Center Line of Card

Ordering Information

SD - XXXX - X - XX - XX

- SD: Secure Digital Card Connector
- XXXX: RSMT = Right Angle Surfacemount
- X: Ejection Type — 2 = Push-Push
- XX: Plating Options — MQ = 10 µ" Gold Plated Wiping Area and Matte-Tin Plated Solder Tail.
- XX: Packaging Options — Blank - Tray; WF = Tape and Reel

TS-2198-01
Sheet 3 of 3

For technical, sales or ordering information call
800-225-5373

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for a period of one (1) year from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**

3M

3M Electronics

6801 River Place Blvd.
Austin, TX 78726-9000
800/225-5373
www.3M.com/electronics

Minimum 10%
Post-Consumer Fiber

Printed in USA.