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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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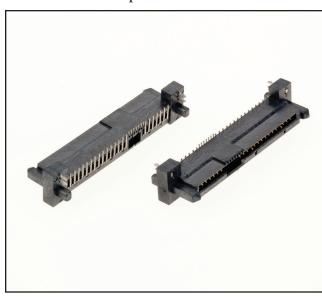




## 3M<sup>™</sup> Serial Attached SCSI (SAS) Connector

Boardmount Compliant Pin and Surface Mount, Vertical Receptacle

**SBR Series** 



- 6 Gbps input/output connector for backplane applications
- Two contact mating levels for early-mate and latebreak allows "blind mating" or "hot swap" applications
- Capable of accepting HDD fitted with SAS or Serial Advanced Technology Attachment (SATA) Header
- Compliant pin
- Compatible with drives compliant to SFF-8223, SFF-8323, and SFF-8523
- Compliant to SFF-8482 Rev 2.2
- Meets SAS Specification, SAS-2.0
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3Mconnector.com for compliance information (RIA E1 & C1 apply)

Date Modified: April 22, 2010

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## **Physical**

**Insulation:** 

Material: High Temperature Thermoplastic

Flammability: UL94V-0 Color: Black

**Contact:** 

Material: Copper Alloy

**Plating:** 

Underplating:  $50 \mu$ " [1.27  $\mu$ m] Min. Nickel Wiping Area:  $30 \mu$ " [0.76  $\mu$ m] Min. Gold

Solder Tails: 100 µ" [ 2.54 µm ] Min. Matte Tin or Gold Flash

Marking: 3M Logo

#### **Electrical**

**Current Rating:** Power Pin: 1.5 A

Signal Pin: 500 mA

**Insulation Resistance:**  $10^3 \, M\Omega \, min$ . **Withstanding Voltage:**  $500 \, V_{AC}$  at sea level

#### **Environmental**

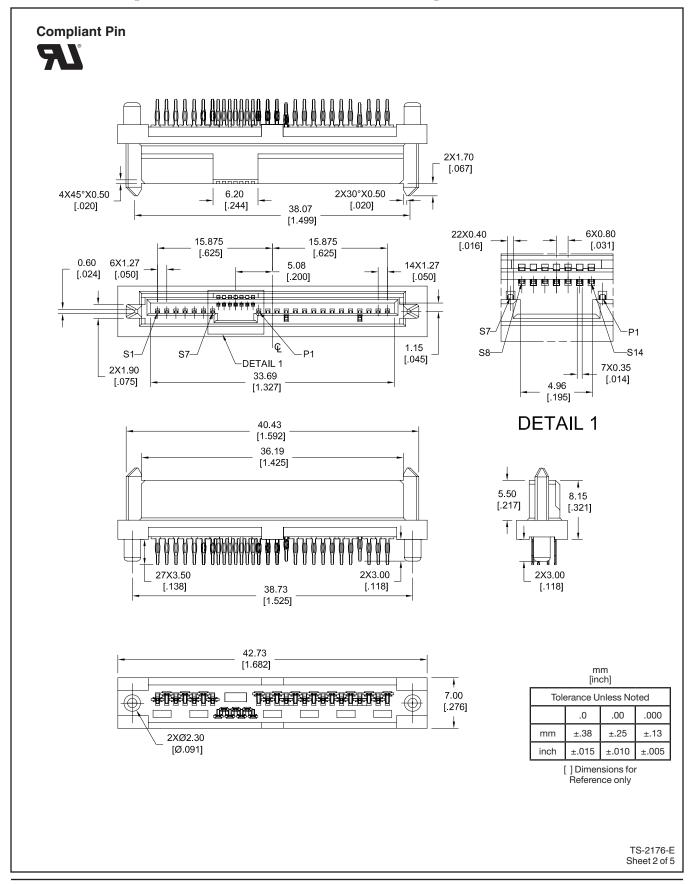
**Temperature Range:** -40°C to +85°C

UL File No.: E68080

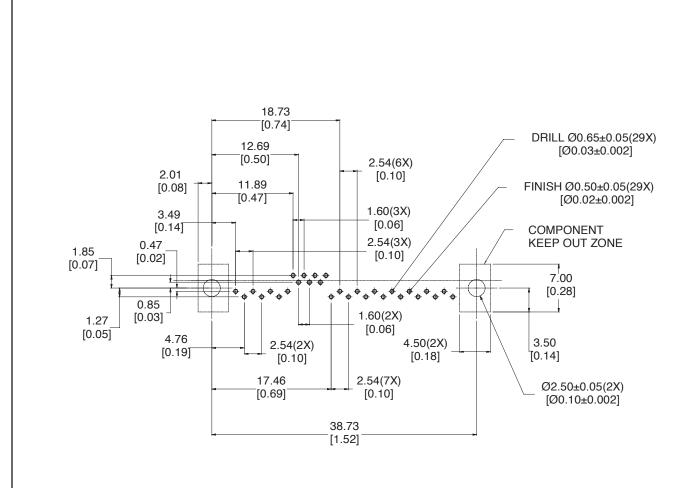
## 3M<sup>™</sup> Serial Attached SCSI (SAS) Connector

Boardmount Compliant Pin and Surface Mount, Vertical Receptacle

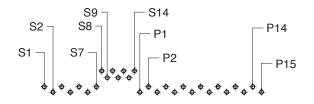
**SBR Series** 



**SBR Series** 



#### RECOMMENDED PCB LAYOUT



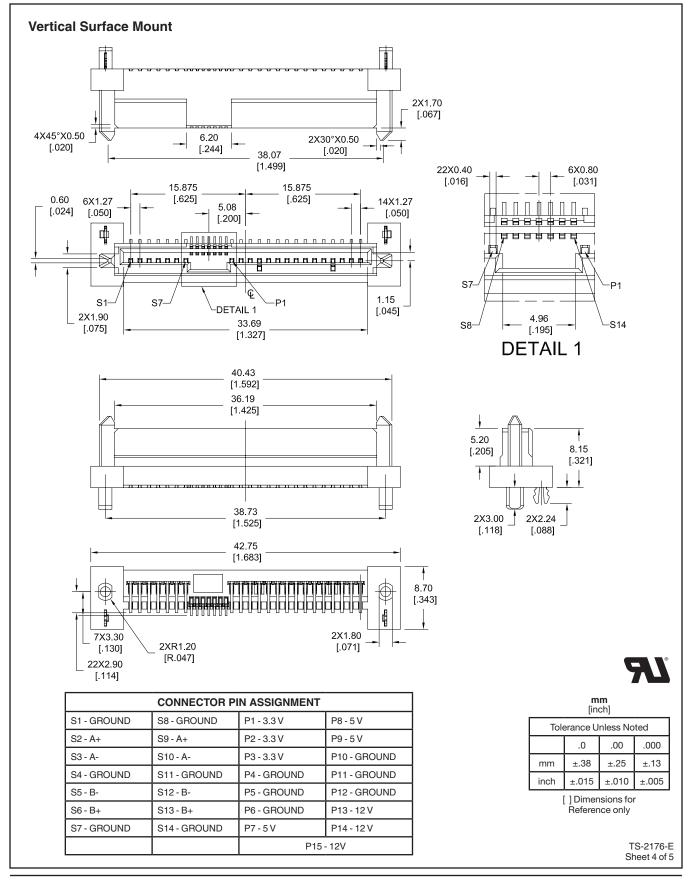
CONNECTOR PIN PATTERN LAYOUT FROM TOP SIDE OF PCB

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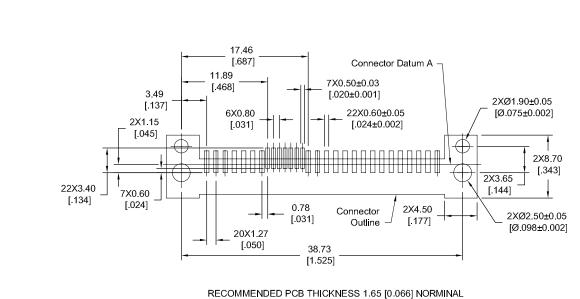
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Boardmount Compliant Pin and Surface Mount, Vertical Receptacle

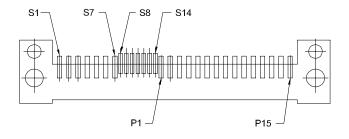
**SBR Series** 



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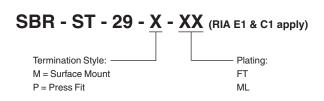


HOLE & PAD PATTERN TOL ±0.05 [0.002]



CONNECTOR PIN PATTERN LAYOUT FROM TOP SIDE OF PCB

## **Ordering Information**



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