3M[™] 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

TS-2176-E Sheet 1 of 5

Physical

Insulation:

Material: High Temperature Thermoplastic

Flammability: UL94V-0 Color: Black

Contact:

Material: Copper Alloy

Plating:

Underplating: 50μ " [1.27 μ m] Min. Nickel Wiping Area: 30μ " [0.76 μ 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

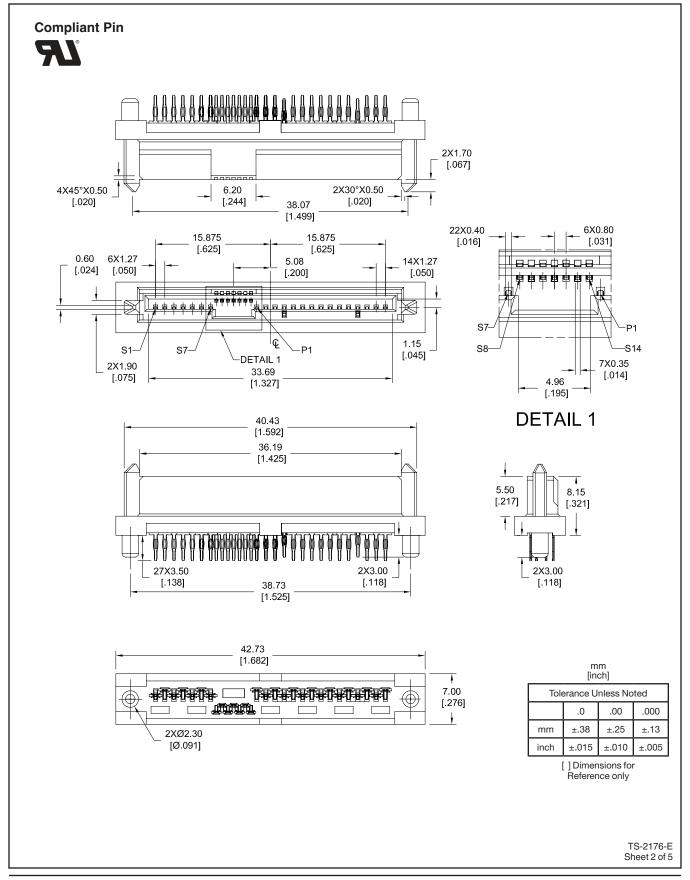
Environmental

Temperature Range: -40°C to +85°C

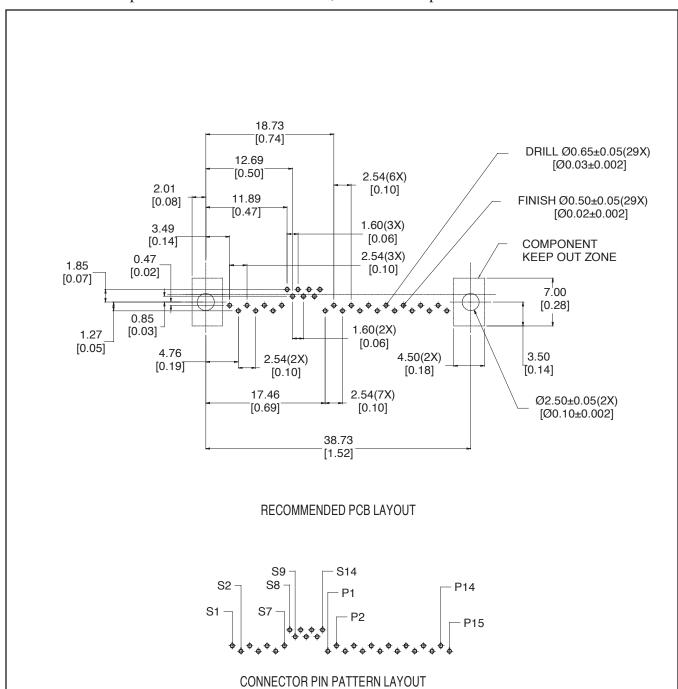
UL File No.: E68080

Boardmount Compliant Pin and Surface Mount, Vertical Receptacle

SBR Series



SBR Series



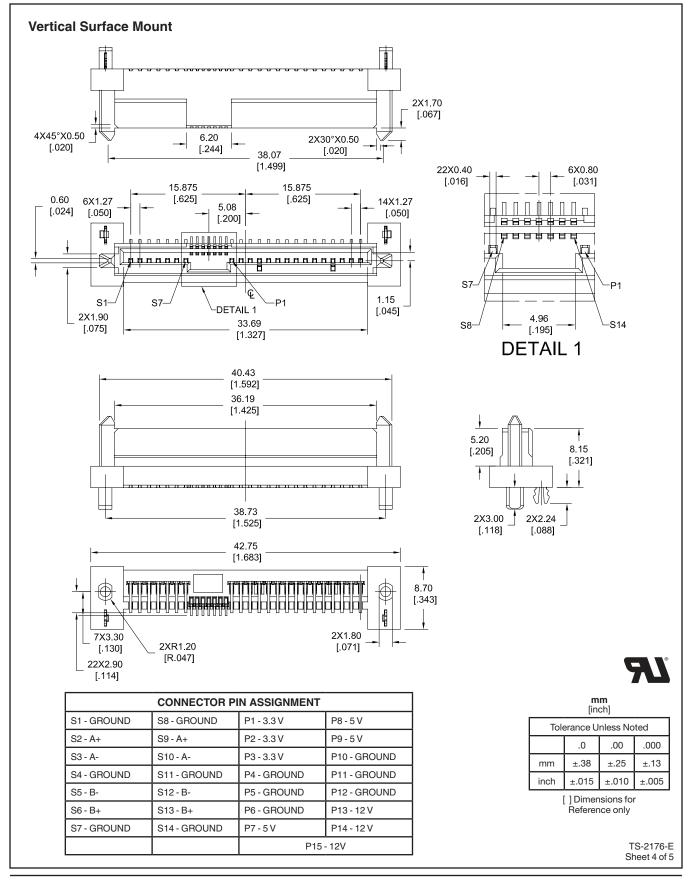
FROM TOP SIDE OF PCB

TS-2176-E Sheet 3 of 5

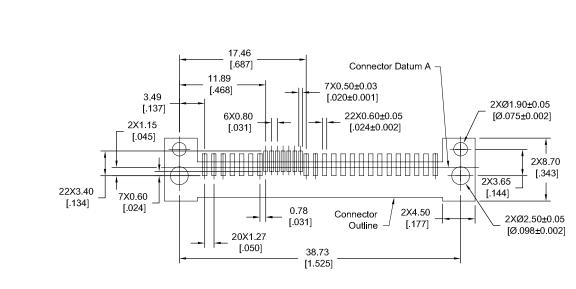
3M[™] Serial Attached SCSI (SAS) Connector

Boardmount Compliant Pin and Surface Mount, Vertical Receptacle

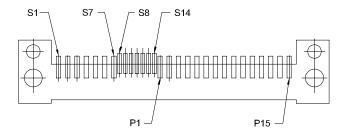
SBR Series



SBR Series

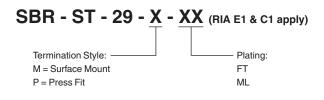


RECOMMENDED PCB THICKNESS 1.65 [0.066] NORMINAL HOLE & PAD PATTERN TOL ± 0.05 [0.002]



CONNECTOR PIN PATTERN LAYOUT FROM TOP SIDE OF PCB

Ordering Information



TS-2176-E Sheet 5 of 5

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

3M is a trademark of 3M Company.

the legal theory asserted.

6801 River Place Blvd. Austin, TX 78726-9000

www.3Mconnector.com

U.S.A. 1-800-225-5373

3M Electronics Solutions Division