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

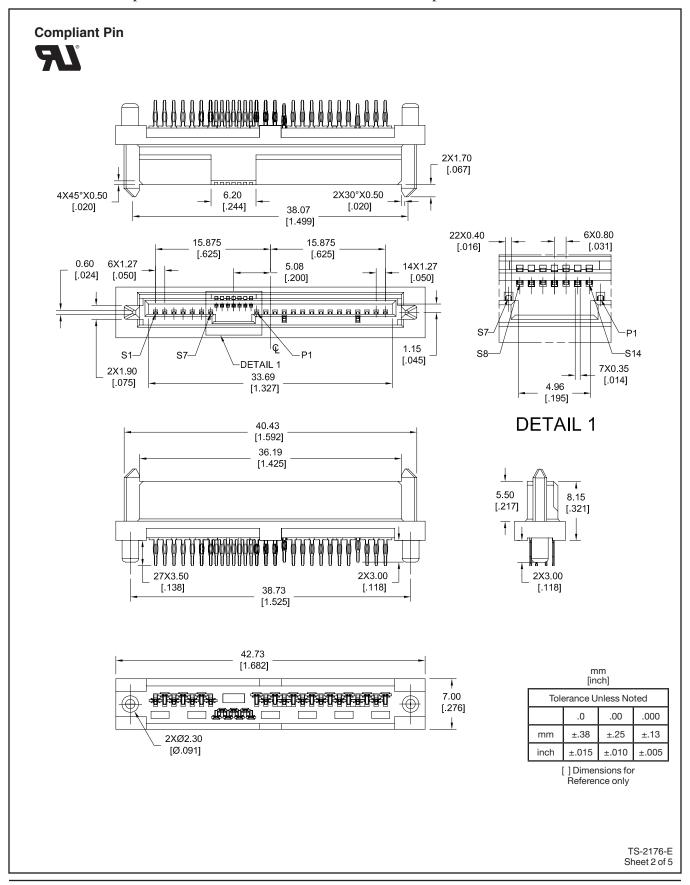
Insulation Resistance: $10^3 \, M\Omega \, min$. **Withstanding Voltage:** $500 \, V_{AC}$ at sea level

Environmental

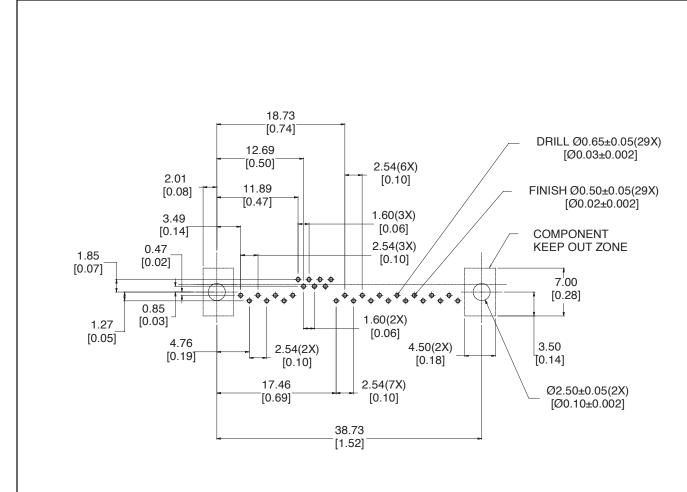
Temperature Range: -40°C to +85°C

UL File No.: E68080

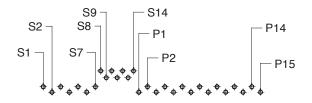
SBR Series



SBR Series



RECOMMENDED PCB LAYOUT



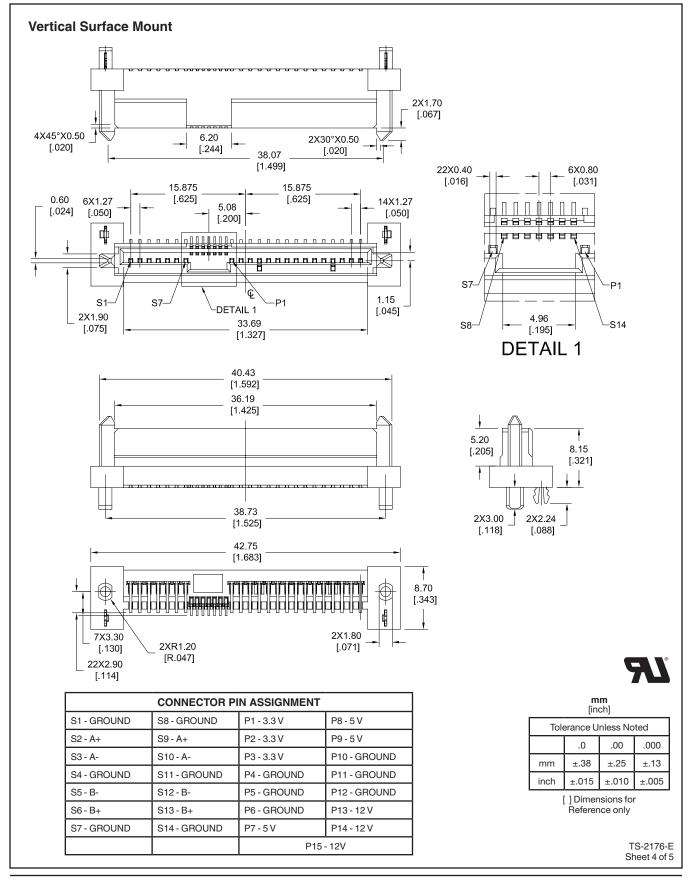
CONNECTOR PIN PATTERN LAYOUT FROM TOP SIDE OF PCB

TS-2176-E Sheet 3 of 5

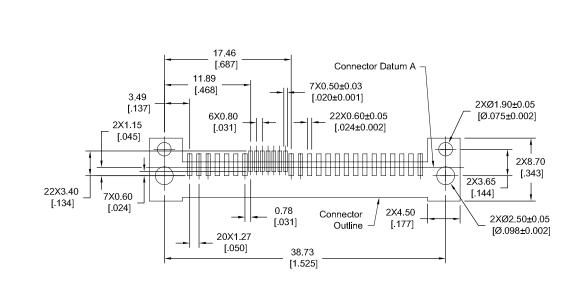
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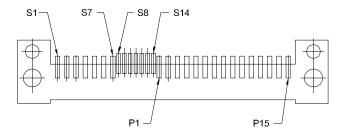
SBR Series



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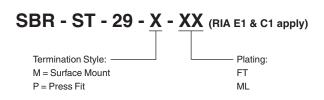


RECOMMENDED PCB THICKNESS 1.65 [0.066] NORMINAL HOLE & PAD PATTERN TOL ± 0.05 [0.002]



CONNECTOR PIN PATTERN LAYOUT FROM TOP SIDE OF PCB

Ordering Information



TS-2176-E Sheet 5 of 5