

3M™ Serial Attached SCSI (SAS) Connector

Boardmount Right Angle, Through-Hole Receptacle

SBR Series



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

Date Modified: March 3, 2011

TS-2180-C
Sheet 1 of 3

Physical

Insulation:

Material: High Temperature Thermoplastic
Flammability: UL94V-0
Color: Black

Contact:

Material: Copper Alloy

Plating:

Underplating: 50 μ ” [1.27 μ m] Min. Nickel
Wiping Area: 30 μ ” [0.76 μ m] Min. Gold
Solder Tails: 100 μ ” [2.54 μ m] Min Matte Tin

Marking: 3M Logo

Electrical

Current Rating: Power Pin: 1.5 A
Signal Pin: 500 mA

Insulation Resistance: 10^3 M Ω min.

Withstanding Voltage: 500 V_{AC} at sea level

Environmental

Operating Temperature: -0°C to +55°C

Non-Operating Temperature: -40°C to +85°C

UL File No.: E68080

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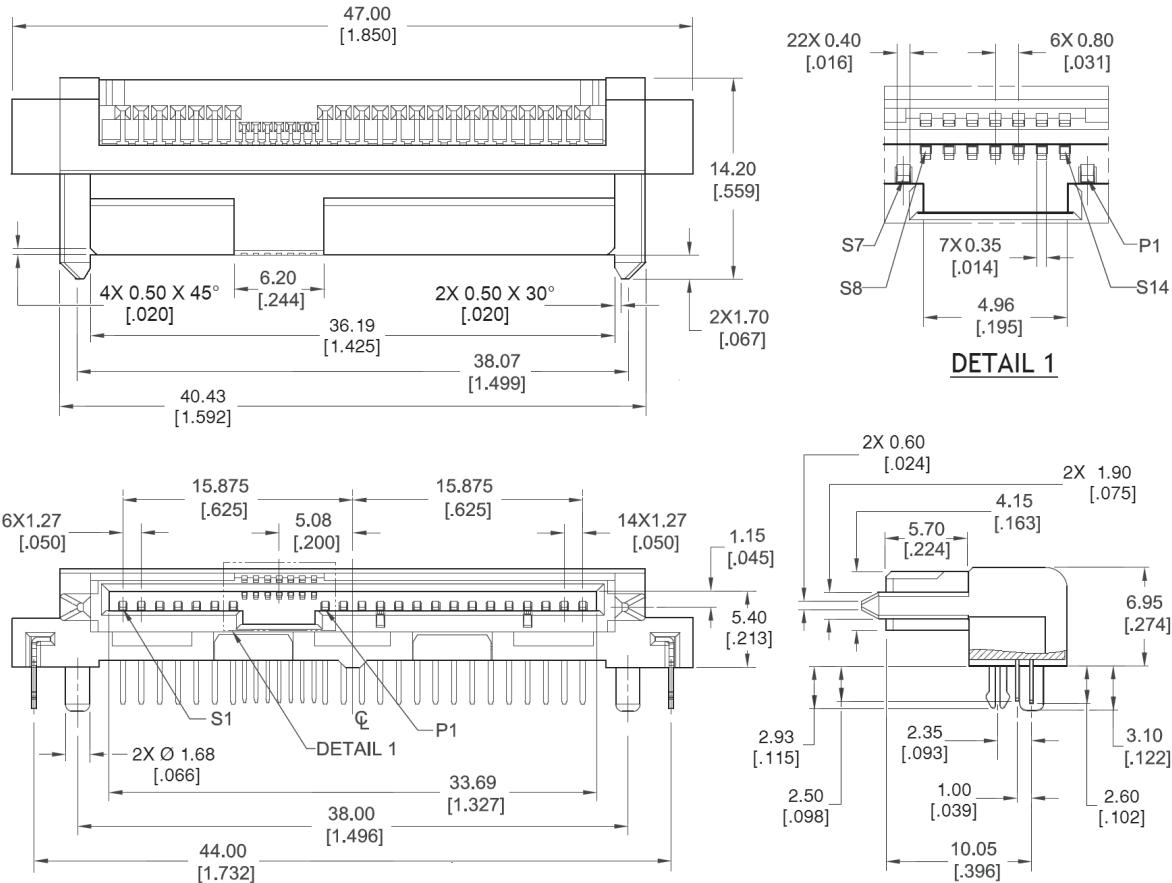
Electronic Solutions Division
Interconnect Solutions
<http://www.3Mconnector.com>

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800-225-5373

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CONNECTOR PIN ASSIGNMENT

| | | | |
|-------------|--------------|-------------|--------------|
| S1 - GROUND | S8 - GROUND | P1 - 3.3 V | P8 - 5 V |
| S2 - A+ | S9 - A+ | P2 - 3.3 V | P9 - 5 V |
| S3 - A- | S10 - A- | P3 - 3.3 V | P10 - GROUND |
| S4 - GROUND | S11 - GROUND | P4 - GROUND | P11 - GROUND |
| S5 - B- | S12 - B- | P5 - GROUND | P12 - GROUND |
| S6 - B+ | S13 - B+ | P6 - GROUND | P13 - 12 V |
| S7 - GROUND | S14 - GROUND | P7 - 5 V | P14 - 12 V |
| | | | P15 - 12V |



mm
[Inch]

| Tolerance Unless Noted | | | |
|------------------------|-------|-------|-------|
| | .0 | .00 | .000 |
| mm | ±.38 | ±.25 | ±.13 |
| inch | ±.015 | ±.010 | ±.005 |

[] Dimensions for
Reference only

TS-2180-C
Sheet 2 of 3

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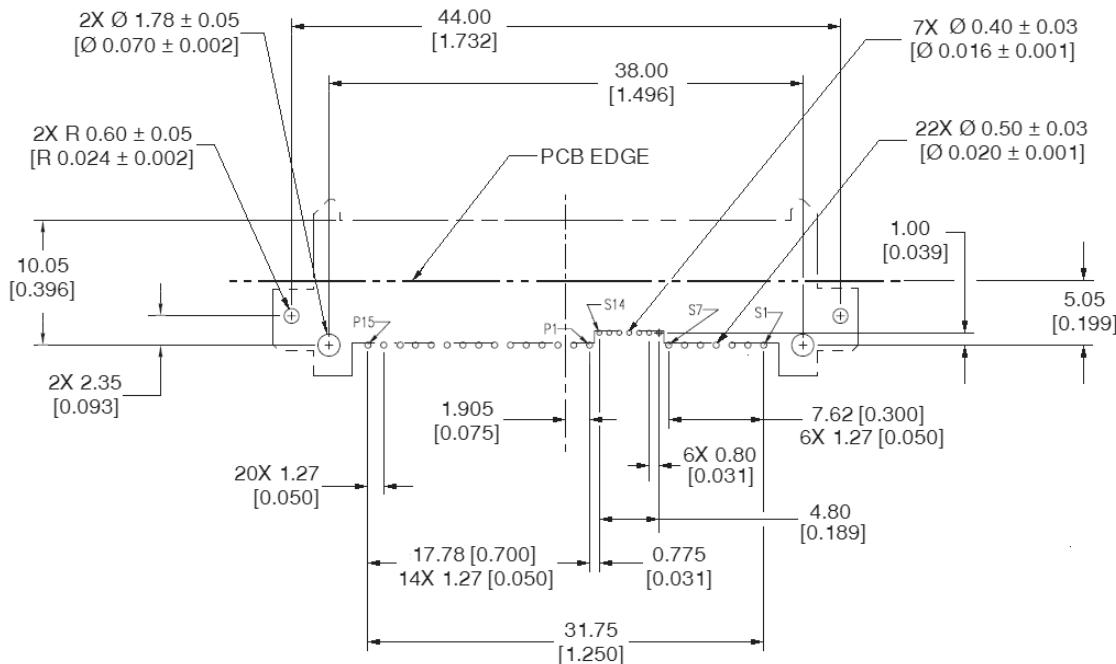
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RECOMMENDED PCB THICKNESS 1.83 [0.073] Nominal

Ordering Information

SBR - RA - 29 - S - ML (RIA E1 & C1)

TS-2180-C
Sheet 3 of 3

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3M Electronics Solutions Division

6801 River Place Blvd.
Austin, TX 78726-9000
U.S.A.
1-800-225-5373
www.3Mconnector.com

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