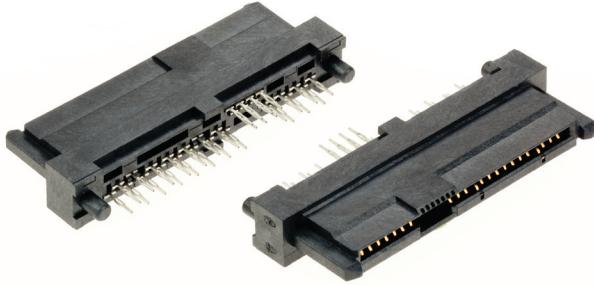


# 3M™ Serial Attached SCSI (SAS) Connector

Boardmount Compliant Pin, Vertical Elevated 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
- Compliant pins
- Elevated height gives more backplane space
- 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](http://www.3Mconnector.com) for compliance information (RIA E1 & C1 apply)

Date Modified: March 10, 2010

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## Physical

### Insulation:

Material: High Temperature Thermoplastic  
Flammability: UL94V-0

Color: Black

### Contact:

Material: Copper Alloy

### Plating:

Underplating: 50u" [1.27 µm] Min. Nickel  
Wiping Area: 30u" [0.76 µm] Min. Gold  
Solder Tails: 100u" [2.54 µm] Min. Matte Tin

**Marking:** 3M Logo

## Electrical

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

**Insulation Resistance:**  $10^3$  MΩ min.

**Withstanding Voltage:** 500 V<sub>AC</sub> at sea level

## Environmental

**Operating Temperature:** 0°C to +55°C

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

UL File No.: E68080

**3M**

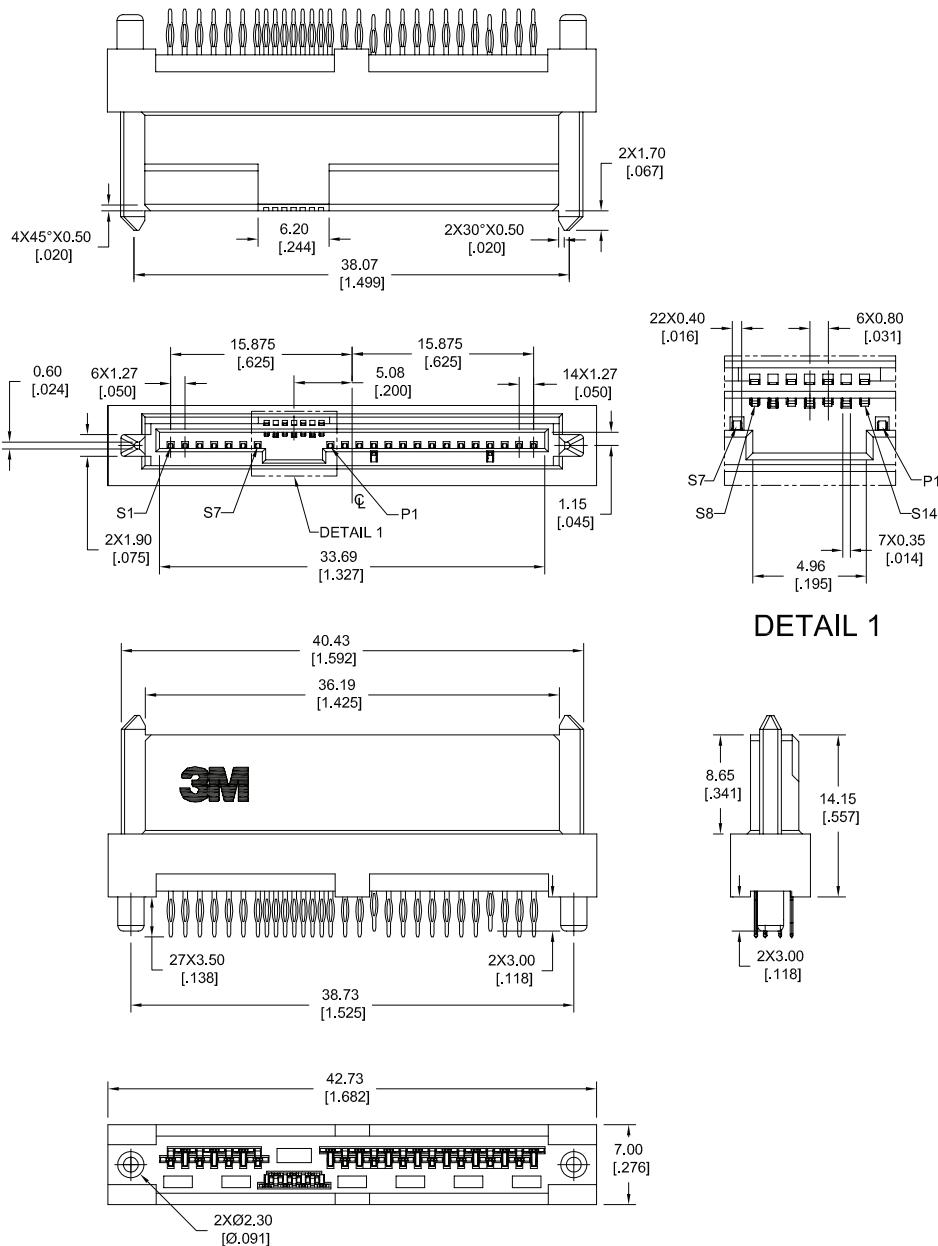
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800-225-5373

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DETAIL 1

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	

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

[ ] Dimensions for Reference only

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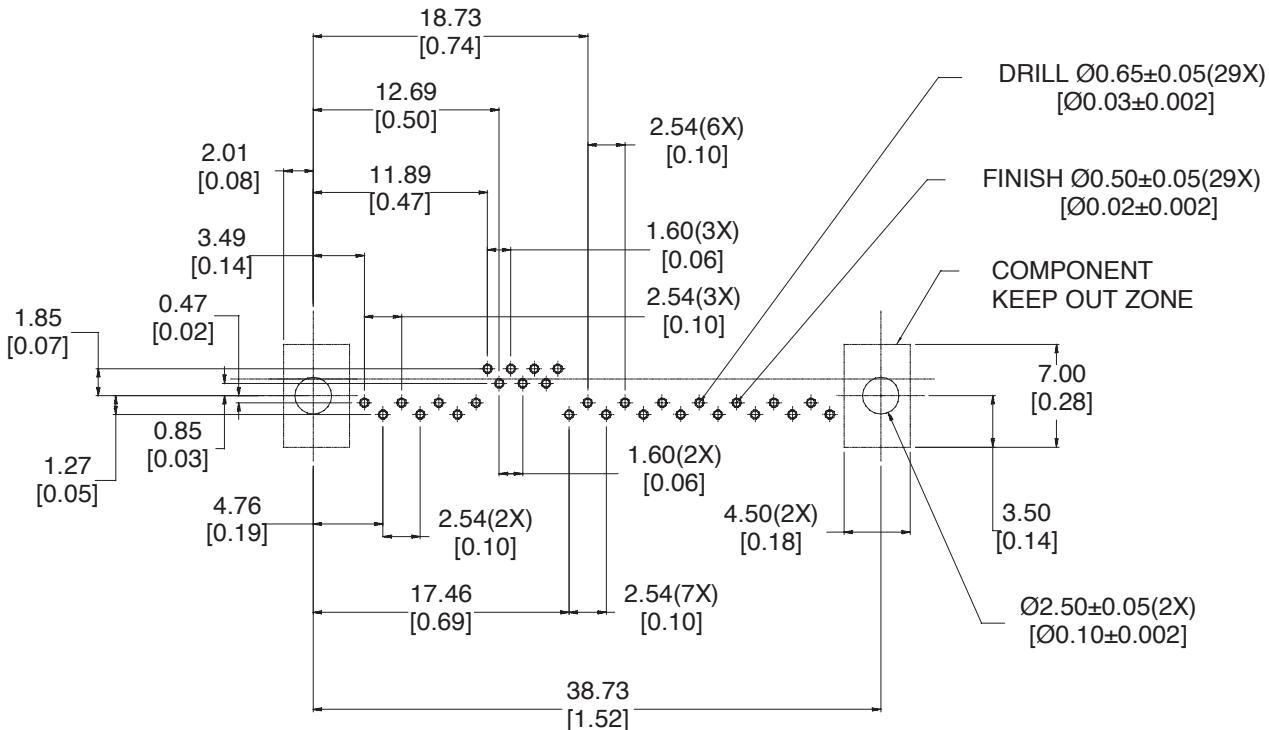
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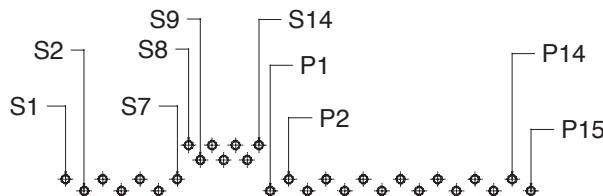
# 3M™ Serial Attached SCSI (SAS) Connector

## Boardmount Compliant Pin, Vertical Elevated Receptacle

## SBR Series



## RECOMMENDED PCB LAYOUT



## CONNECTOR PIN PATTERN LAYOUT FROM TOP SIDE OF PCB

## Ordering Information

SBR - EV - 29 - P - ML (RIA E1 & C1 apply)

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