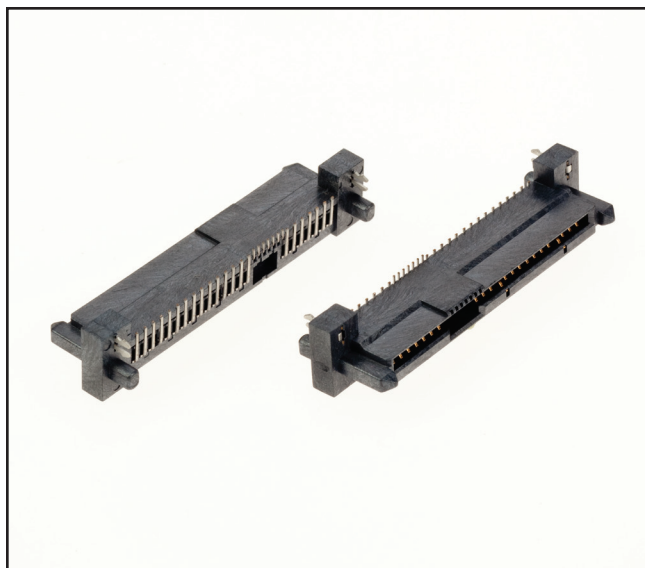


3M™ Serial Attached SCSI (SAS) Connector

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 late-break 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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Sheet 1 of 5

Physical

Insulation:

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

Contact:

Material: Copper Alloy

Plating:

Underplating: 50 µ" [1.27 µm] Min. Nickel
Wiping Area: 30 µ" [0.76 µm] 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: 10³ MΩ min.

Withstanding Voltage: 500 V_{AC} at sea level

Environmental

Temperature Range: -40°C to +85°C

UL File No.: E68080



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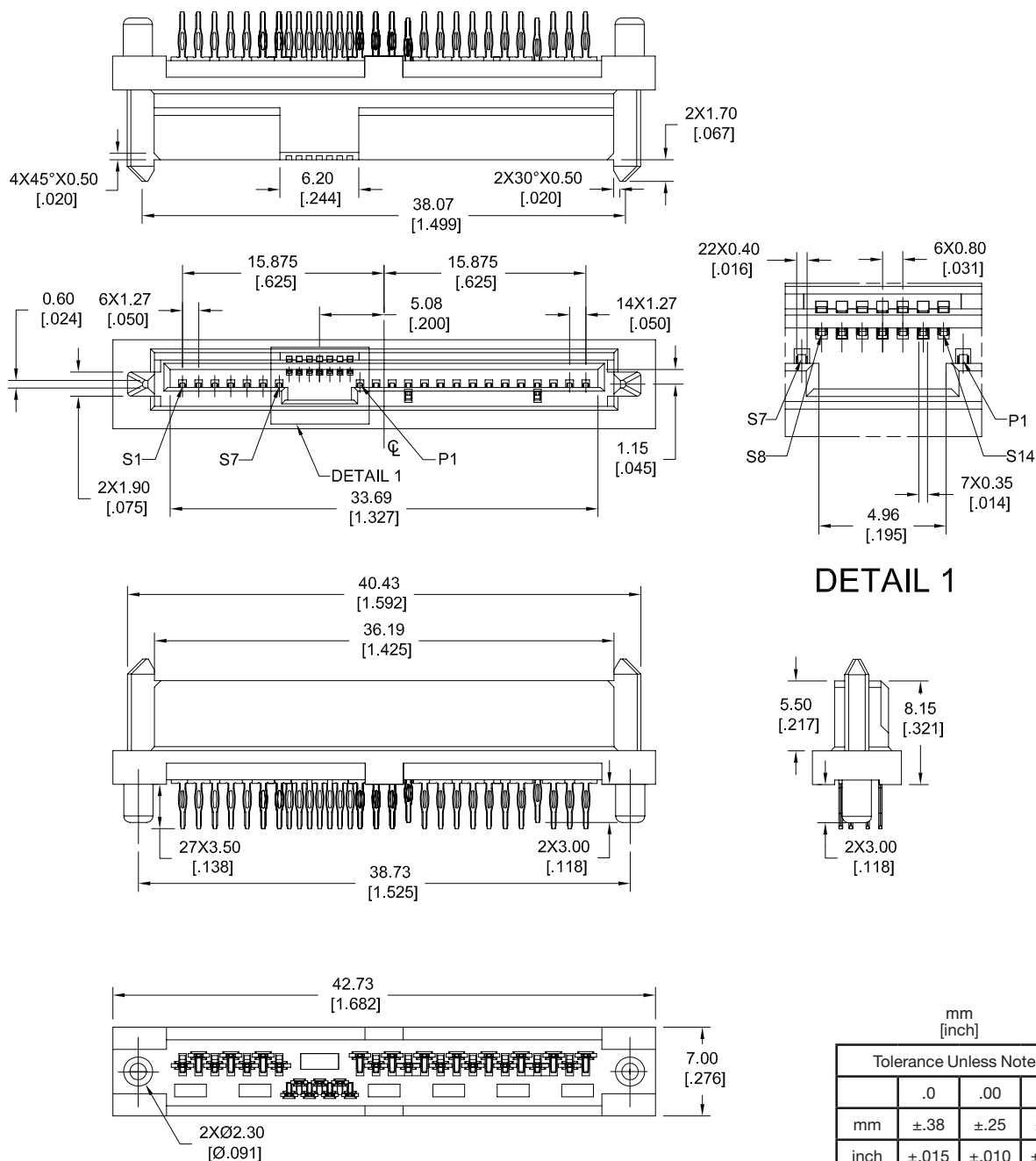
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800-225-5373

3M™ Serial Attached SCSI (SAS) Connector

Boardmount Compliant Pin and Surface Mount, Vertical Receptacle

SBR Series

Compliant Pin



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

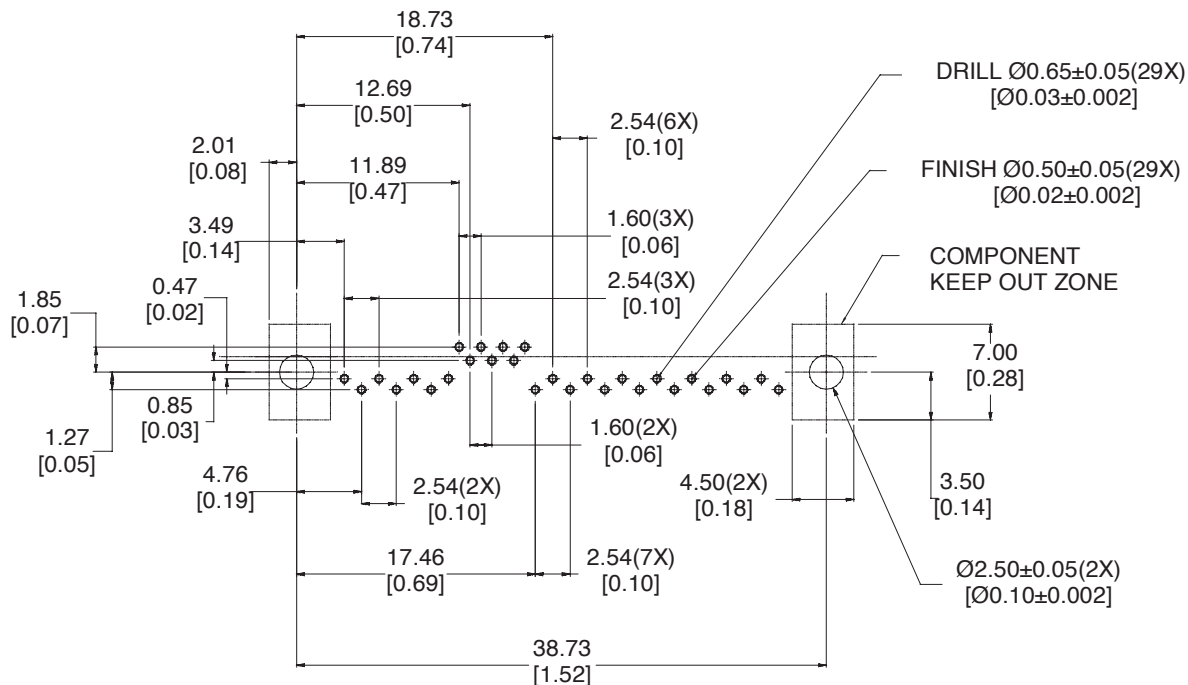
[] Dimensions for Reference only

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Sheet 2 of 5

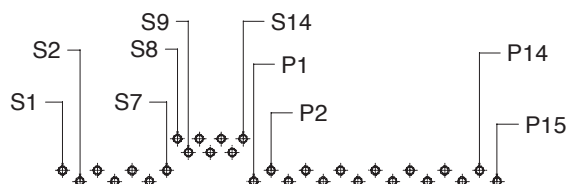
3M™ Serial Attached SCSI (SAS) Connector

Boardmount Compliant Pin and Surface Mount, Vertical Receptacle

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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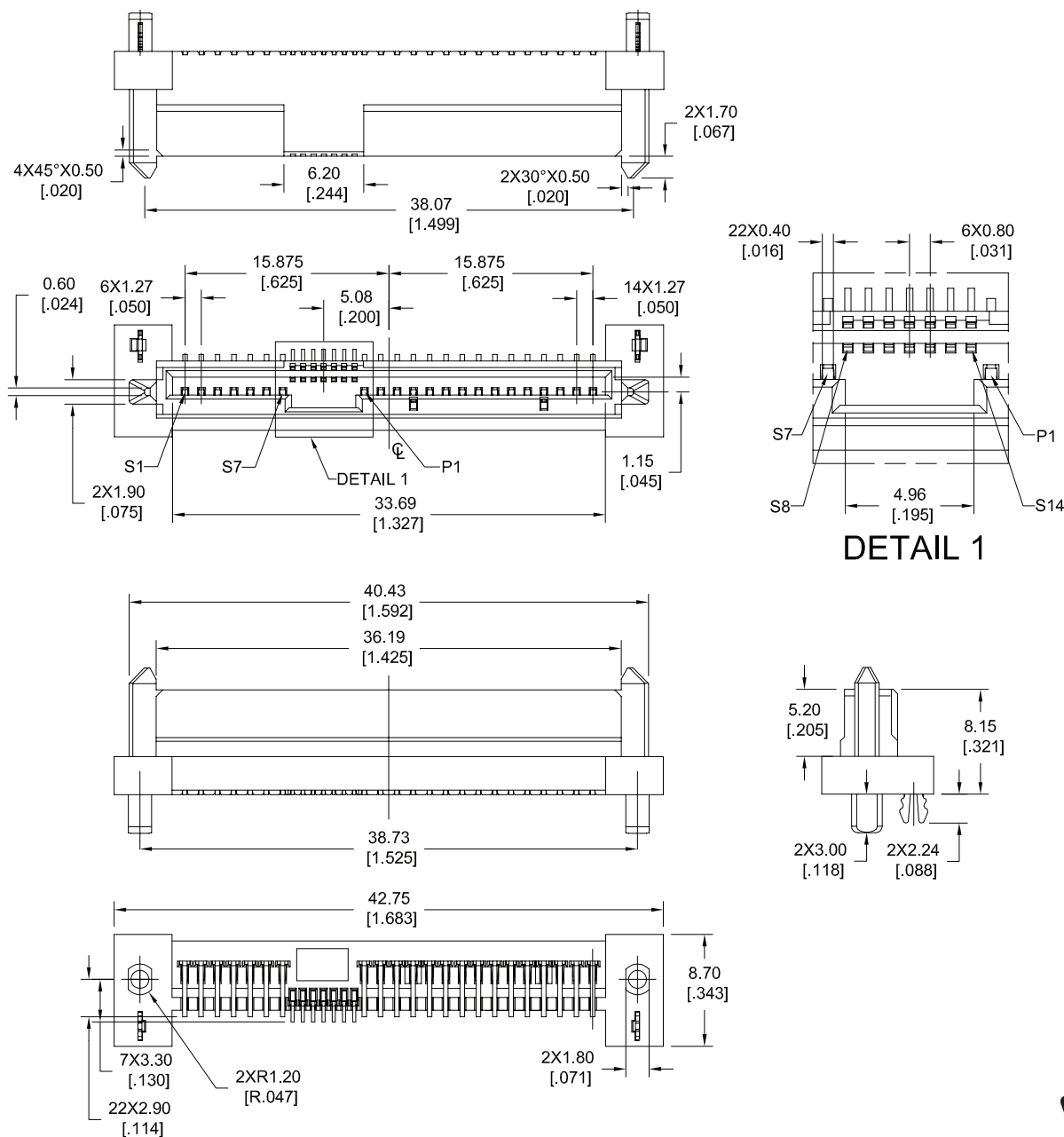
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3M™ Serial Attached SCSI (SAS) Connector

Boardmount Compliant Pin and Surface Mount, Vertical Receptacle

SBR Series

Vertical Surface Mount



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

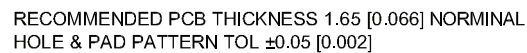
TS-2176-E
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SBR Series



SBR - ST - 29 - X - XX (RIA E1 & C1 apply)

- Plating:
FT
ML

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Sheet 5 of 5

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Электрон
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