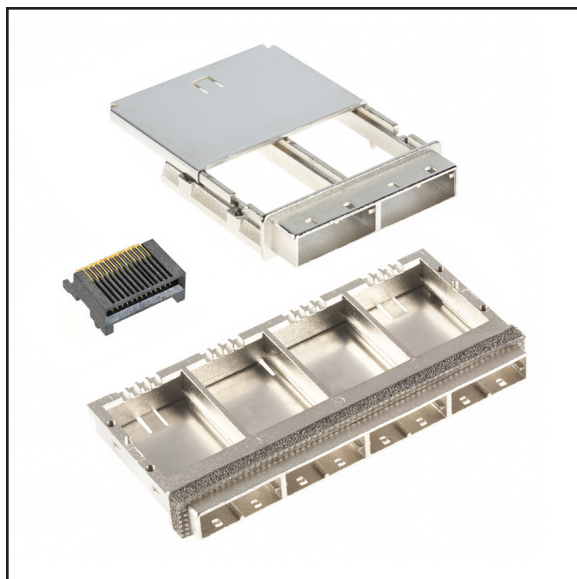


3M™ Mini Serial Attached SCSI (miniSAS) Connector

Right Angle Surface Mount Receptacle/Metal Cage

8A26/8C26 Series



- Capable of 6 Gbps per channel data rate
- Available in 1x1, 1x2, and 1x4 configurations
- For external cable assembly applications
- Meets SFF-8086 and SFF-8087 specifications
- Meets SAS Specification, SAS-2
- Multiple cage key options available
- See Regulatory Information Appendix (RIA) for chemical compliance information

Date Modified: March 31, 2008

TS-2211-D
Sheet 1 of 9

Physical

Insulation Material: High Temperature Thermoplastic

Flammability: UL94V-0

Color: Black

Contact Material: Copper Alloy

Underplate Plating: 50 µ" min. [1.27 µm] Nickel

Wiping Area Plating: 30 µ" min. [0.76 µm] Gold

Solder Tails Plating: 100 µ" min. [2.54 µm] Matte Tin

EMI Guide Cage Frame Material: Zinc Alloy

Frame Plating: 30 µ" min. [0.762 µm] Nickel (RIA E1 and C1 apply)

Cover Material: Stainless Steel 0.25 mm [0.010"]

Cover Plating: 30 µ" min. [0.762 µm] Nickel

EMI Gasket Material: Conductive Foam

Electrical

Connector:

Current Rating: Per Contact: 0.5 A

Insulation Resistance: 10³ MΩ min.

Withstanding Voltage: 300 V_{DC} min. for 1 minute

Environmental

Operating Temperature: -20°C to +85°C (Connector and metal cage)

UL File No.: E68080



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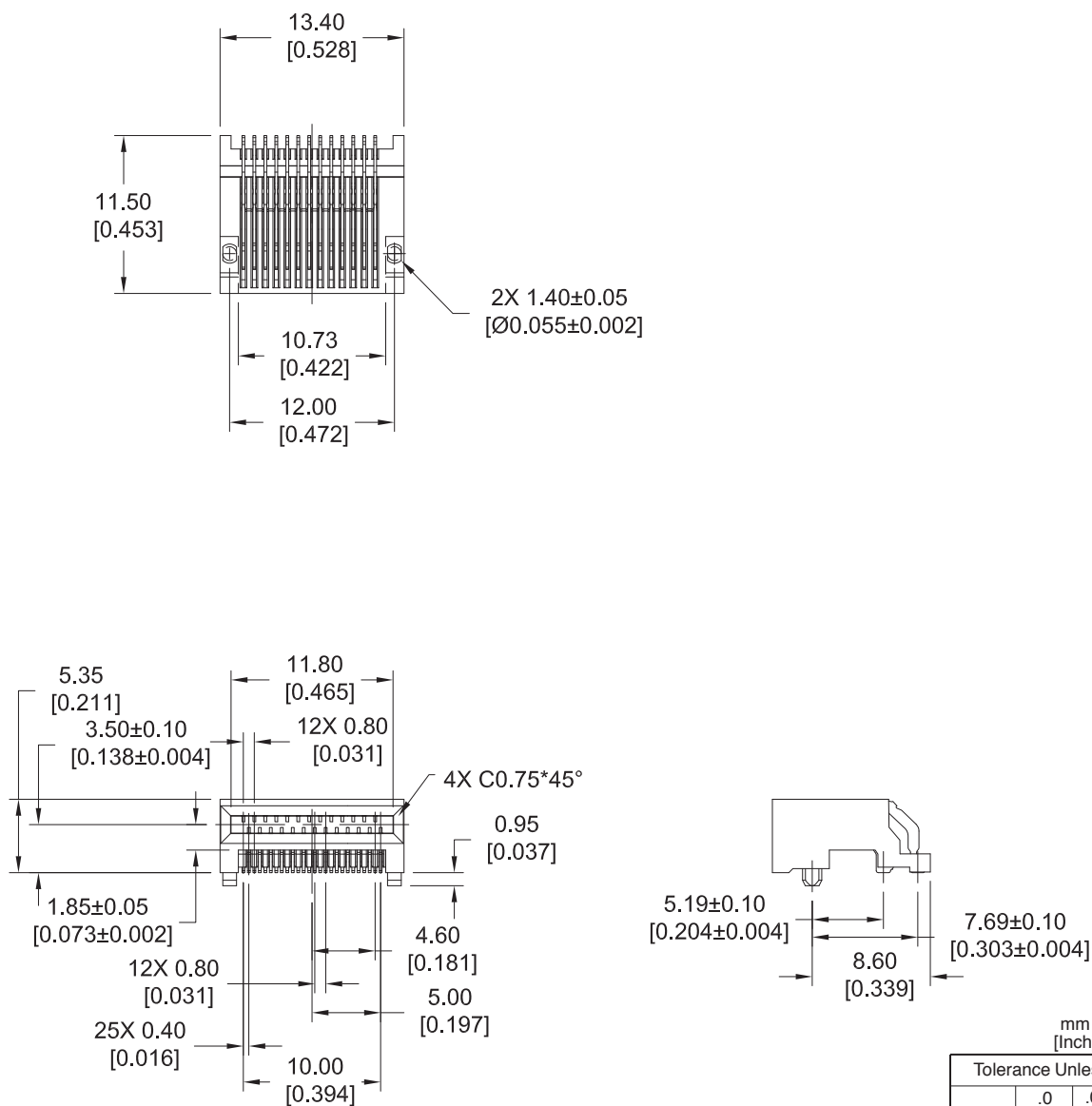
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3M™ Mini Serial Attached SCSI (miniSAS) Connector

Right Angle Surface Mount Receptacle/Metal Cage

8A26/8C26 Series

Receptacle Component



mm [Inch]			
Tolerance Unless Noted			
	.0	.00	.000
mm	±.25	±.15	±.05

[] Dimensions for
Reference only

Ordering Information

8A26 - 2030-LJ - XX (RIA E1 & C1 apply)

blank = Packaged in trays

PP = Packaged in trays with mylar for pick-and-place

PR = Packaged tape and reel with mylar for pick-and-place

TS-2211-D
Sheet 2 of 9



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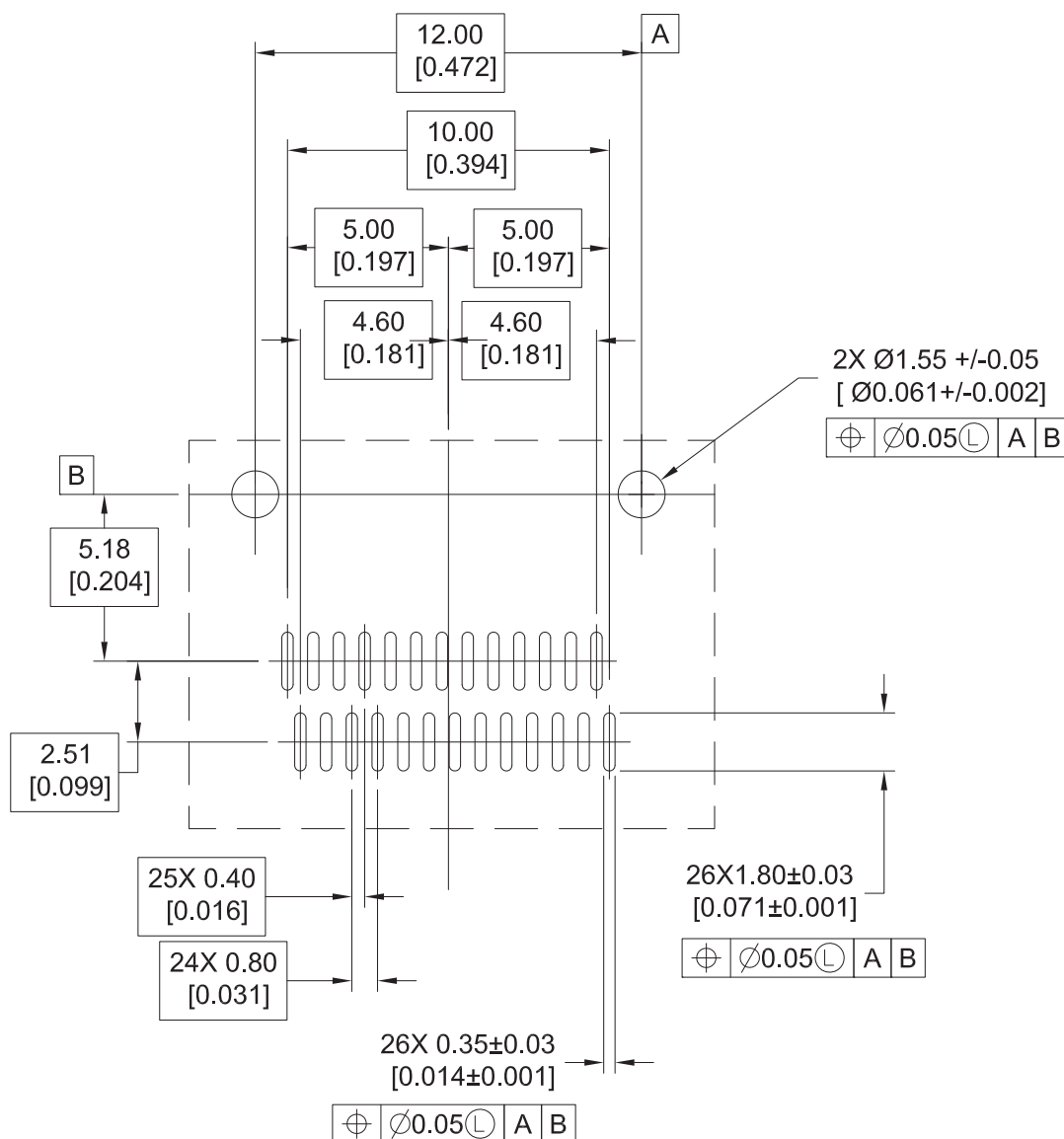
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3M™ Mini Serial Attached SCSI (miniSAS) Connector

Right Angle Surface Mount Receptacle/Metal Cage

8A26/8C26 Series

Receptacle PC Board Component



mm
[Inch]

Tolerance Unless Noted			
	.0	.00	.000
mm	± .25	± .15	± .05

[] Dimensions for
Reference only

TS-2211-D
Sheet 3 of 9

3M

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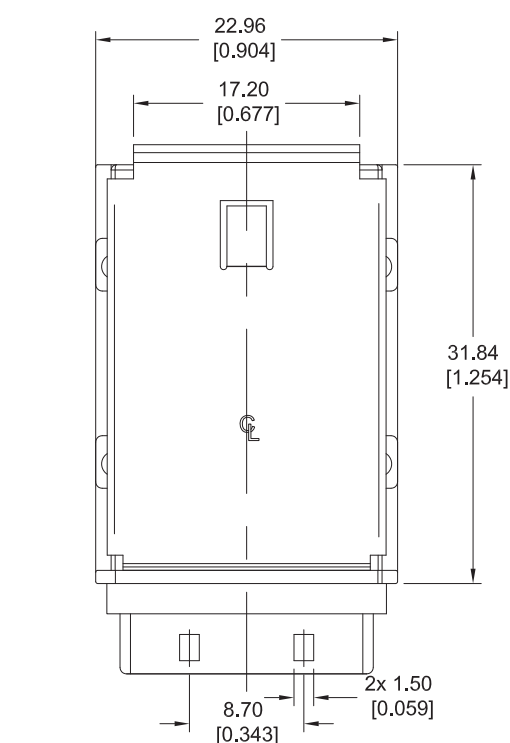
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Right Angle Surface Mount Receptacle/Metal Cage

8A26/8C26 Series

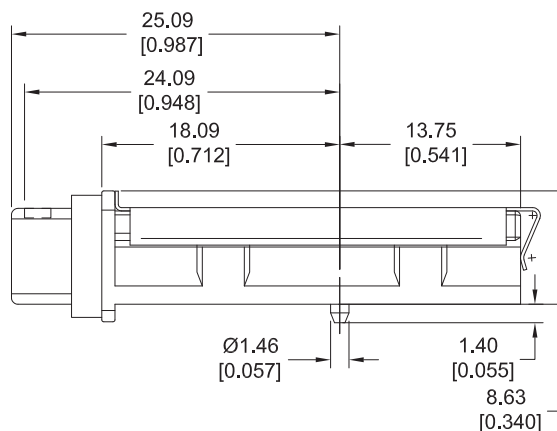
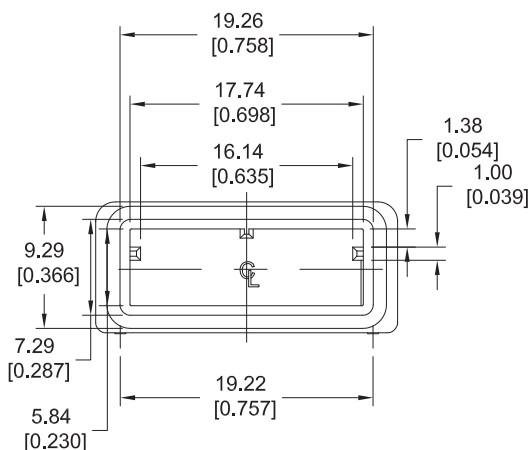
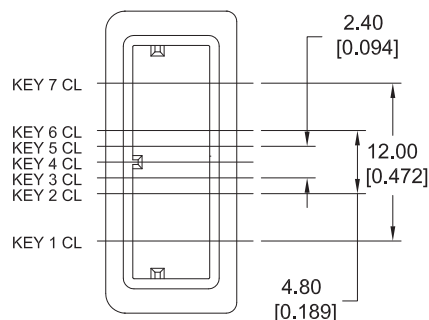
1 x 1 EMI Cage Component



mm [Inch]			
Tolerance Unless Noted			
	.0	.00	.000
mm	± .25	± .15	± .05

[] Dimensions for Reference only

KEY POSITION



Ordering Information

8C26 - 1X000 (RIA E1 & C1 apply)

Available Key Option Port 1:

- 2 = single key, pos. 2
- 4 = single key, pos. 4
- 6 = single key, pos. 6
- A = dual key, pos. 2 & 4
- B = dual key, pos. 4 & 6

TS-2211-D
Sheet 4 of 9



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8A26/8C26 Series

Technical drawing of a mechanical part, likely a bracket or plate, showing dimensions and tolerances. The drawing includes a central rectangular feature with a dashed outline, surrounded by a hatched area. Dimensions are provided in millimeters (mm) and inches (in) in brackets. Tolerances are indicated by feature control frames.

Dimensions and Tolerances:

- Overall width: 24.96 [0.983]
- Overall height: 30.48 [1.200]
- Top horizontal distance: 12.48 [0.491]
- Top horizontal distance: 12.00 [0.472]
- Top horizontal distance: 3.20 [0.126]
- Left vertical distance: 18.67 [0.735]
- Left vertical distance: 15.81 [0.622]
- Left vertical distance: 16.80 [0.661]
- Right vertical distance: 28.37 [1.117]
- Right vertical distance: 24.17 [0.952]
- Right vertical distance: 6.00 [0.236]
- Bottom horizontal distance: 10.11 [0.398]
- Bottom horizontal distance: 17.74 [0.698]
- Bottom horizontal distance: 19.23 [0.757]
- Bottom horizontal distance: 20.22 [0.796]
- Bottom horizontal distance: 22.96 [0.904]

Feature Control Frames:

- Top left: 2X Ø1.00 [R0.039]
- Top right: 2X Ø1.55 ±0.05 [0.061 ±0.002]
- Left side: 4X Ø2.50 [Ø0.098]
- Right side: 4X 1.50 [0.059]
- Right side: 3X 2.40 [0.094]
- Right side: 2X 3.80 [0.150]
- Bottom left: 2X Ø1.55 [Ø0.061]
- Bottom right: 2X Ø1.55 ±0.05 [0.061 ±0.002]

Other Features:

- Feature A: A rectangular feature on the top right.
- Feature B: A rectangular feature on the left side.
- SEE NOTE 1: Points to a feature on the left side.
- SEE NOTE 2: Points to a feature on the left side.

[] Dimensions for Reference only

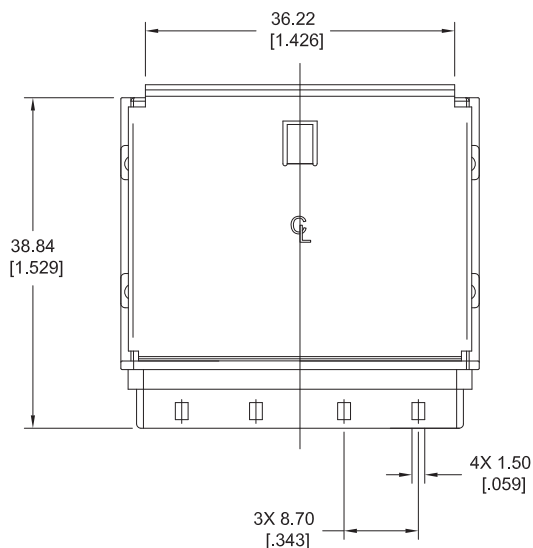
TS-2211-D
Sheet 5 of 9

3M™ Mini Serial Attached SCSI (miniSAS) Connector

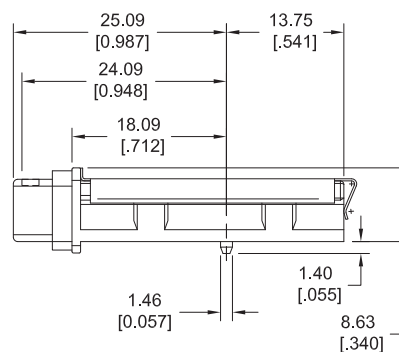
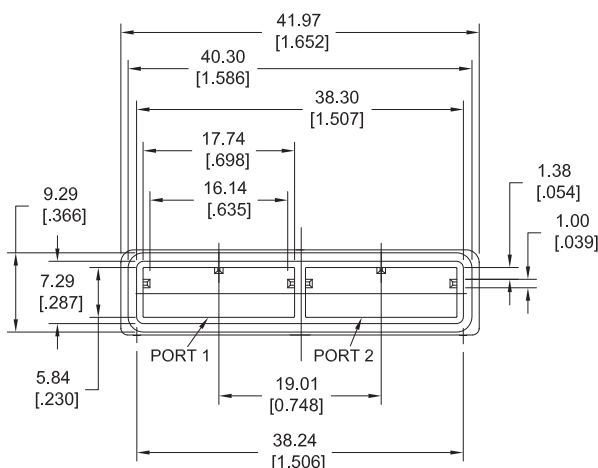
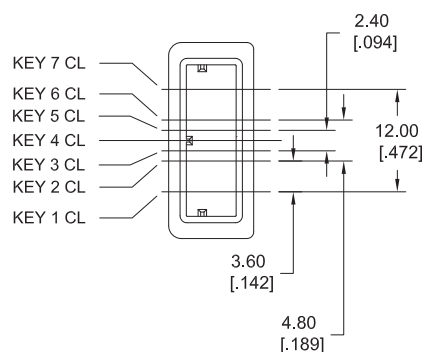
Right Angle Surface Mount Receptacle/Metal Cage

8A26/8C26 Series

1 x 2 EMI Cage Component



KEY POSITION



mm
[Inch]

Tolerance Unless Noted			
	.0	.00	.000
mm	±.25	±.15	±.05

[] Dimensions for
Reference only

Ordering Information

8C26 - 2XX00 (RIA E1 & C1 apply)

Available Key Option Port 1 & 2: _____

(Left to Right as shown)

2 = single key, pos. 2

4 = single key, pos. 4

6 = single key, pos. 6

A = dual key, pos. 2 & 4

B = dual key, pos. 4 & 6

TS-2211-D
Sheet 6 of 9



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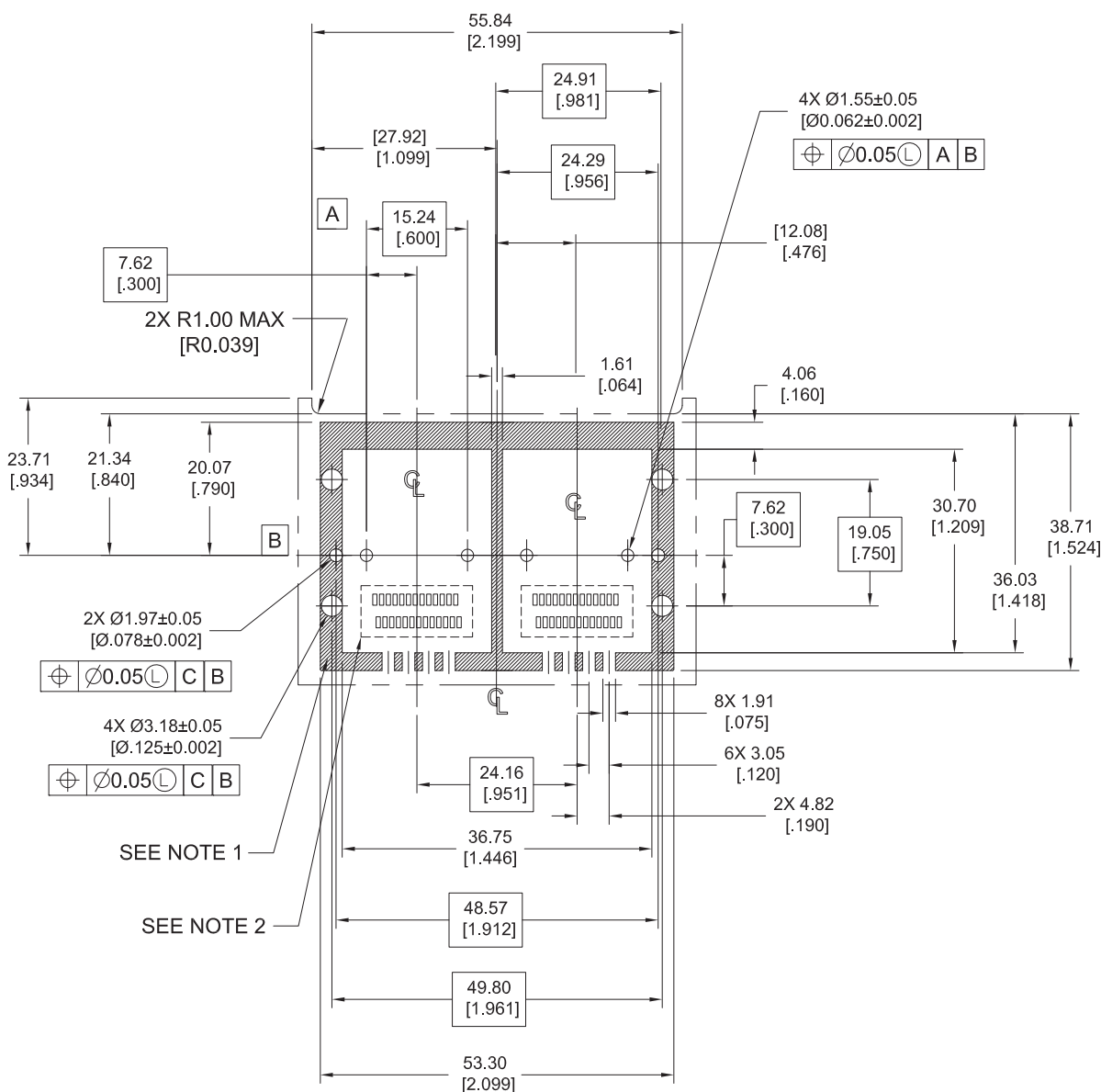
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3M™ Mini Serial Attached SCSI (miniSAS) Connector

Right Angle Surface Mount Receptacle/Metal Cage

8A26/8C26 Series

1 x 2 EMI Cage PC Board Layout



mm [Inch]			
Tolerance Unless Noted			
	.0	.00	.000
mm	±.25	±.15	±.05

[] Dimensions for
Reference only

Notes:

- Ground pad for port guide rail. Plate ground pad with immersion silver or gold.
- See Receptacle PC Board Layout

TS-2211-D
Sheet 7 of 9



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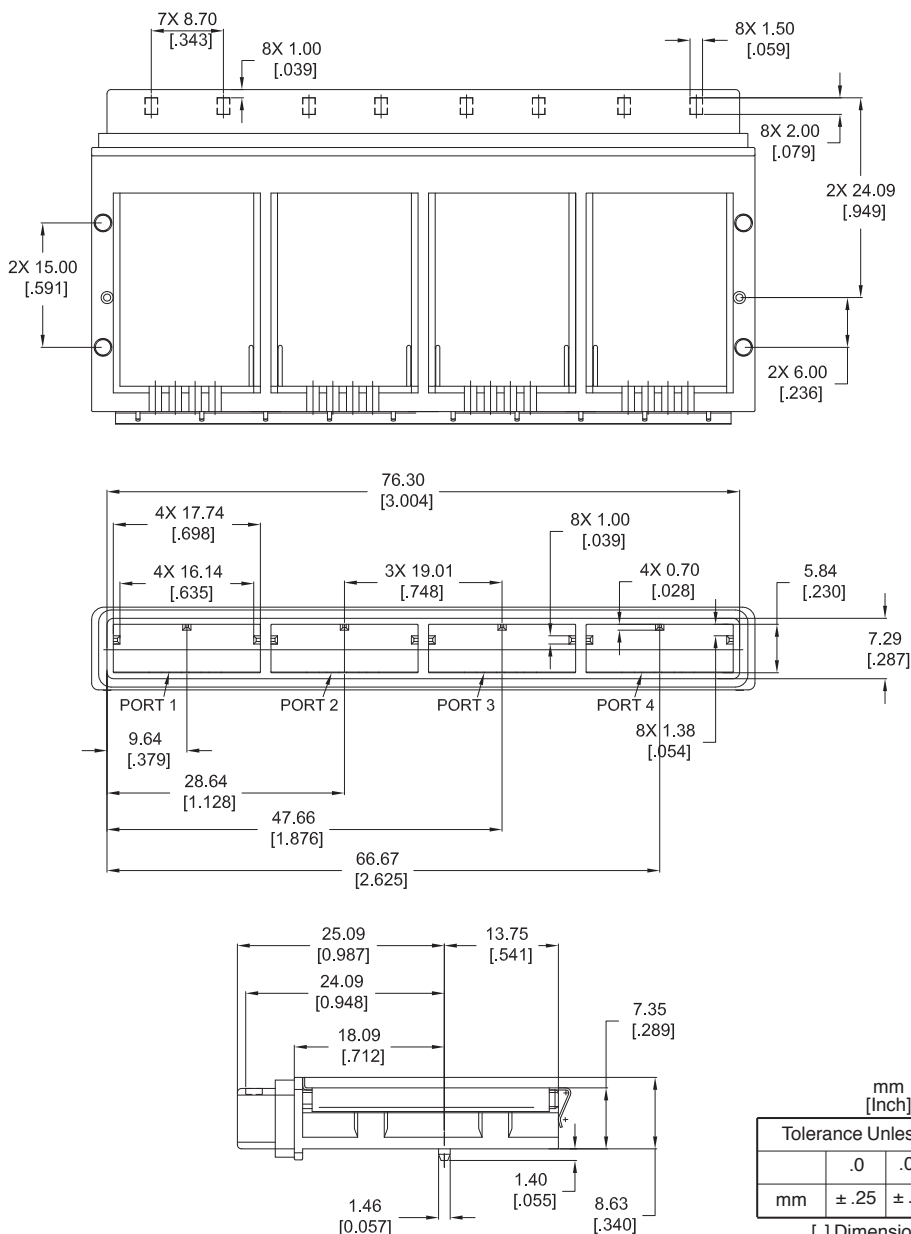
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3M™ Mini Serial Attached SCSI (miniSAS) Connector

Right Angle Surface Mount Receptacle/Metal Cage

8A26/8C26 Series

1x4 EMI PC Cage Component



mm [Inch]			
Tolerance Unless Noted			
	.0	.00	.000
mm	± .25	± .15	± .05

[] Dimensions for Reference only

Ordering Information

8C26 - 4XXXX (RIA E1 & C1 apply)

Available Key Options Port 1 to 4:

(Left to Right as shown)

2 = single key, pos. 2

4 = single key, pos. 4

6 = single key, pos. 6

A = dual key, pos. 2 & 4

B = dual key, pos. 4 & 6

TS-2211-D
Sheet 8 of 9



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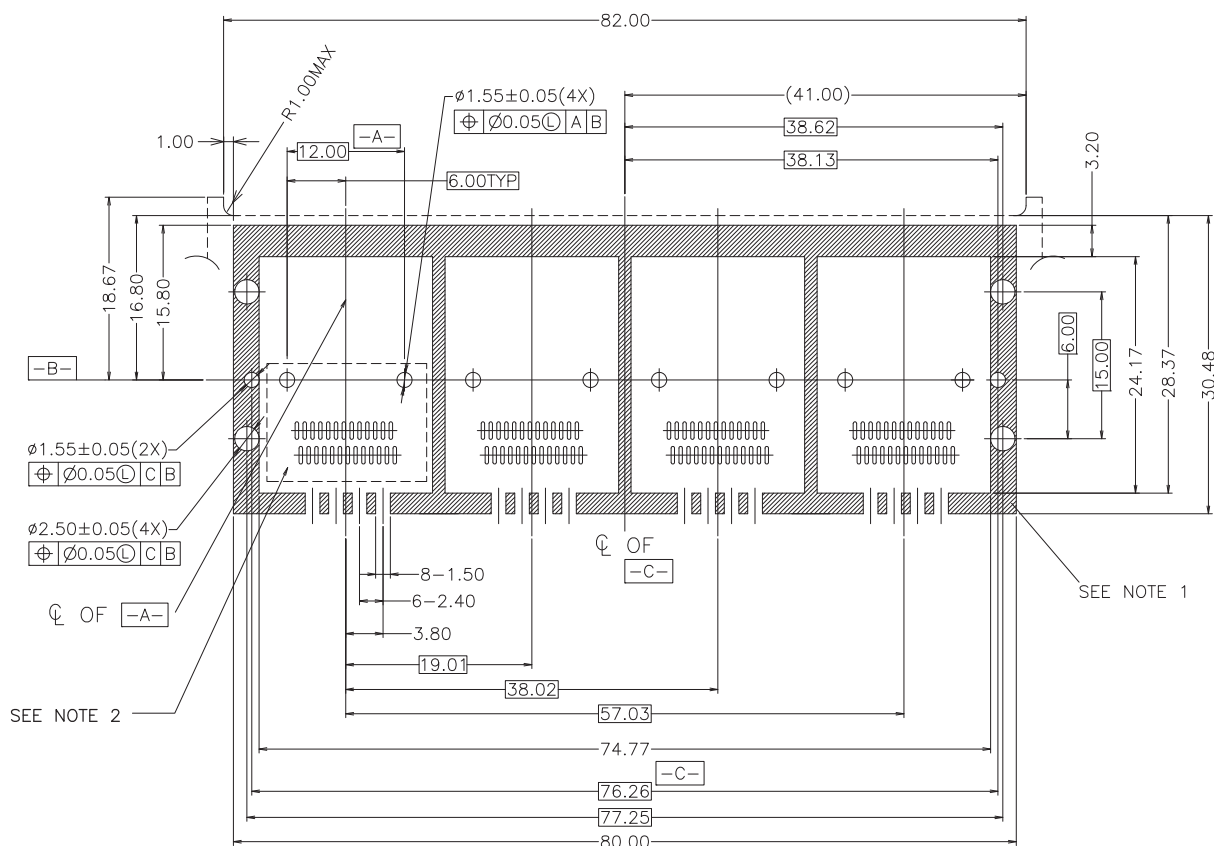
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3M™ Mini Serial Attached SCSI (miniSAS) Connector

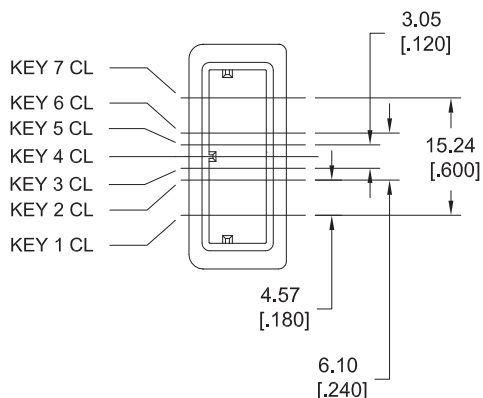
Right Angle Surface Mount Receptacle/Metal Cage

8A26/8C26 Series

1x4 EMI PC Board Layout



KEY POSITION



Tolerance Unless Noted			
	.0	.00	.000
mm	$\pm .25$	$\pm .15$	$\pm .05$

[] Dimensions for Reference only

Notes

1. Ground pad for port guide rail. Plate ground pad with immersion silver or gold.
2. See Receptacle PC Board Layout

TS-2211-D
Sheet 9 of 9



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Regulatory Information Appendix

3M Electronic Solutions Division/Interconnect

EUROPE

Appendix E1: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product is RoHS Compliant 2005/95/EC.

“RoHS Compliant 2005/95/EC” means that the product or part (“Product”) does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M’s best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M’s Regulatory Information Appendix, then 3M’s entire liability and Buyer’s exclusive remedy will be in accordance with the Warranty stated below.

Appendix E2: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product contains lead in the compliant pin area in excess of the maximum concentration value allowed but is compliant by exemption under EU Commission Decision 2005/747/EC.

“RoHS Compliant 2005/95/EC” means that the product or part (“Product”) does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M’s best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M’s Regulatory Information Appendix, then 3M’s entire liability and Buyer’s exclusive remedy will be in accordance with the Warranty stated below.

Appendix E3: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment as amended by Commission Decision 2005/618/EC.

This product contains lead in the solder tail area in excess of the maximum concentration value allowed.

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In the event any product is proven not to conform with 3M’s Regulatory Information Appendix, then 3M’s entire liability and Buyer’s exclusive remedy will be in accordance with the Warranty stated below.

Appendix E4: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product contains decaBDE in the insulating material in excess of the maximum concentration value allowed but is compliant by exemption under EU Commission Decision 2005/717/EC.

“RoHS Compliant 2005/95/EC” means that the product or part (“Product”) does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M’s best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M’s Regulatory Information Appendix, then 3M’s entire liability and Buyer’s exclusive remedy will be in accordance with the Warranty stated below.

Appendix E5: European Union RoHS

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product contains lead in excess of the maximum concentration value allowed but is compliant by exemption under Item 6 of the Annex to the Directive.

“RoHS Compliant 2005/95/EC” means that the product or part (“Product”) does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M’s best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M’s Regulatory Information Appendix, then 3M’s entire liability and Buyer’s exclusive remedy will be in accordance with the Warranty stated below.

CHINA

Appendix C1: China RoHS



Electronic Industry Standard of the People’s Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.

This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part **does not** contain any of the following substances in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M’s best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M’s Regulatory Information Appendix, then 3M’s entire liability and Buyer’s exclusive remedy will be in accordance with the Warranty stated below.

Appendix C2: China RoHS



Electronic Industry Standard of the People’s Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.

This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part **does** contain a substance, as detailed in the chart below, in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M’s best knowledge and belief based upon information provided by third party suppliers to 3M.

The numerical reference in the symbol above should not be construed as a representation regarding the product’s life or an extension of a product warranty. The product warranty is stated below. In the event any product is proven not to conform with 3M’s Regulatory Information Appendix, then 3M’s entire liability and Buyer’s exclusive remedy will be in accordance with the product Warranty stated below.

产品中有毒有害物质或元素的名称及含量 Name and Content of Hazardous Substances or Elements

部件名称 (Part or Component Name)	有毒有害物质或元素 (Hazardous Substances or Elements)					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
端子镀层 (contact plating)	×	○	○	○	○	○
○：表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 标准规定的限量要求以下。(Indicates that this hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.)						
×：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。(Indicates that this hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.)						

Appendix C3: China RoHS



Electronic Industry Standard of the People's Republic of China, SJ/T11363-2006, Requirements for Concentration Limits for Certain Hazardous Substances in Electronic Information Products.

This symbol, per Marking for the Control of Pollution Caused by Electronic Information Products, SJ/T11364-2006, means that the product or part **does** contain a substance, as detailed in the chart below, in excess of the following maximum concentration values in any homogeneous material: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

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产品中有毒有害物质或元素的名称及含量 Name and Content of Hazardous Substances or Elements

部件名称 (Part or Component Name)	有毒有害物质或元素 (Hazardous Substances or Elements)					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
合金 (Metal alloy)	×	○	○	○	○	○
<p>○: 表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006 标准规定的限量要求以下。(Indicates that this hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.)</p> <p>×: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出SJ/T11363-2006 标准规定的限量要求。(Indicates that this hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.)</p>						

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