

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: **0877830301**
Status: **Active**
Description: 0.60mm (.024") Pitch miniDIMM DDR3 Socket, Surface Mount, 22.5° Angle, 0.76µm (30µ") Gold (Au) Plating, Off-White Latches, with Pick-and-Place Cap, 244 Circuits, 1.5V Voltage Key, Lead-free

Documents:

[3D Model](#) [Product Specification PS-87783-001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980
 UL E29179

General

Product Family Memory Module Sockets
 Series [87783](#)
 Comments Latches in Off-White Color
 Component Type Socket
 JEDEC Outline MO-244
 Product Name MiniDIMM

Physical

Circuits (Loaded) 244
 Color - Resin Black
 Durability (mating cycles max) 25
 Entry Angle 22.5° Angle
 Flammability 94V-0
 Keying to Mating Part Yes
 Material - Metal Copper Alloy
 Material - Plating Mating Gold
 Material - Plating Termination Tin
 Material - Resin High Temperature Thermoplastic
 PCB Locator Yes
 PCB Retention Yes
 Packaging Type Tray
 Pitch - Mating Interface (in) 0.024 In
 Pitch - Mating Interface (mm) 0.60 mm
 Plating min: Mating (µin) 30
 Plating min: Mating (µm) 0.76
 Plating min: Termination (µin) 100
 Plating min: Termination (µm) 2.54
 Temperature Range - Operating -55°C to +85°C
 Termination Interface: Style Surface Mount

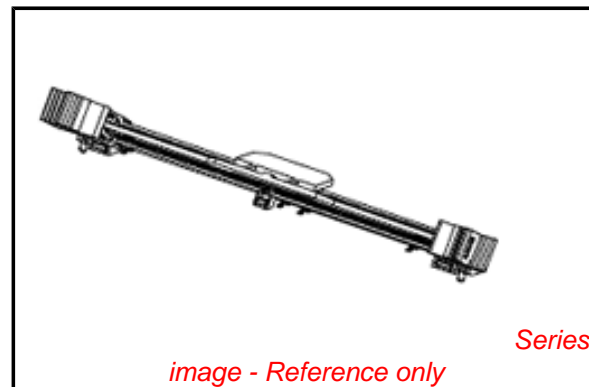
Electrical

Current - Maximum per Contact 1A
 Voltage - Maximum 30V
 Voltage Key 1.5V

Solder Process Data

Duration at Max. Process Temperature (seconds) 5
 Lead-free Process Capability Reflow Capable (SMT only)
 Max. Cycles at Max. Process Temperature 2
 Process Temperature max. C 260

Material Info



EU RoHS

ELV and RoHS Compliant
REACH SVHC
 Not Reviewed
Halogen-Free Status
 Not Reviewed

China RoHS



Need more information on product environmental compliance?

Email productcompliance@molex.com
 For a multiple part number RoHS Certificate of Compliance, [click here](#)

Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series

[87783Series](#)

Mates With

JEDEC MO-244 Modules

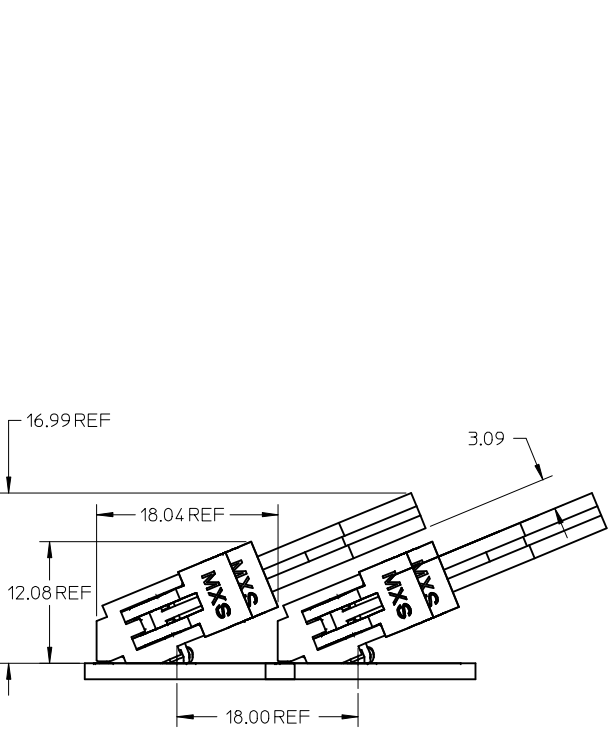
Reference - Drawing Numbers

Product Specification
Sales Drawing

PS-87783-001
SD-87783-001

This document was generated on 04/09/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

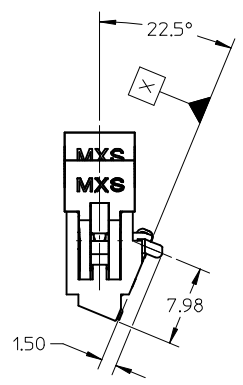
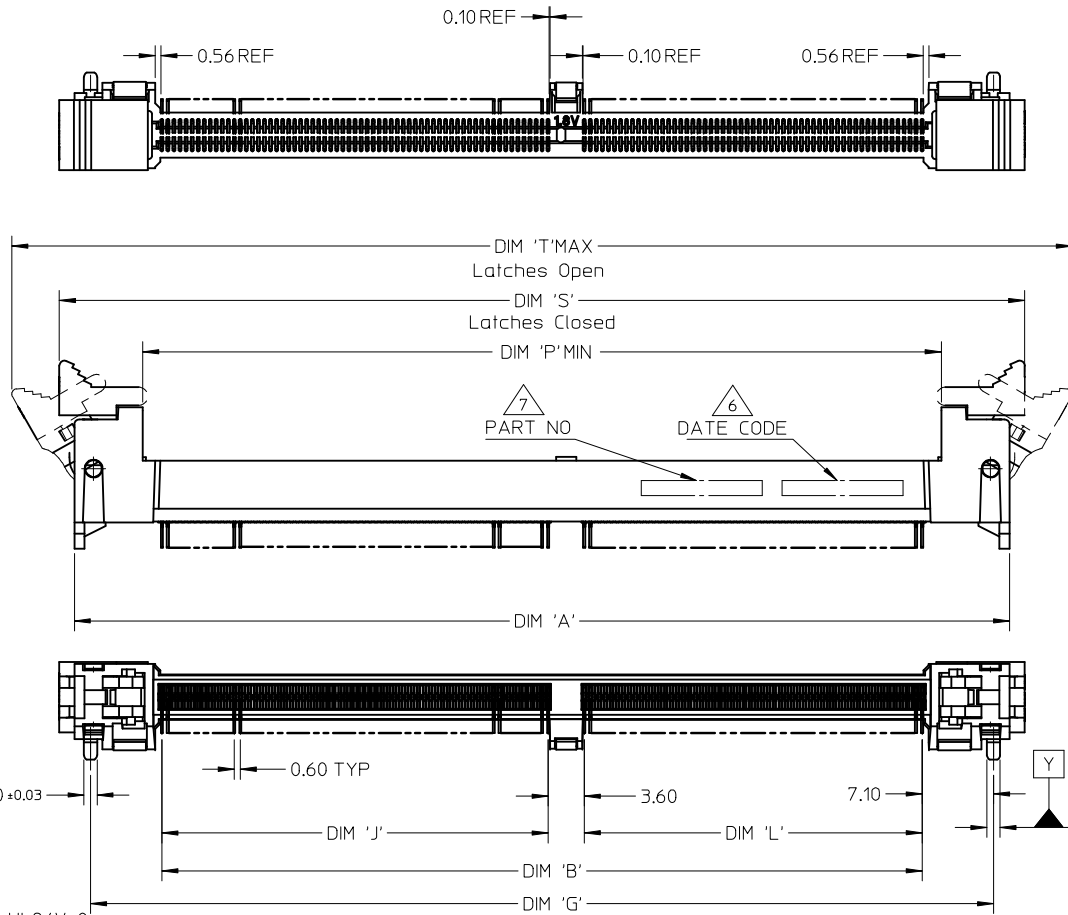


MINIMUM HEIGHT OF SOCKET WITH MODULE CARD HEIGHT OF 30.00MM AND THICKNESS OF 4MM.

- NOTES :
- MATERIAL :
 - HOUSING : HIGH TEMPERATURE LIQUID CRYSTAL POLYMER, UL94V-0
 - COLOUR : BLACK
 - CONTACTS : COPPER ALLOY
 - LATCHES : HIGH TEMPERATURE NYLON, UL94V-0
 - COLOUR : NATURAL (OFF-WHITE)
 - COVER : HIGH TEMPERATURE NYLON, UL 94V-0
 - COLOUR : BLACK

- FINISH
 - CONTACTS : 0.76 MICROMETER (30 MICROINCH) MIN GOLD OVER
 - 1.25 MICROMETER (50 MICROINCH) MIN NICKEL
 - SMT TAIL : 2.54 MICROMETER (100 MICROINCH) MIN TIN OVER
 - 1.25 MICROMETER (50 MICROINCH) MIN NICKEL
- ACCEPTS 1.0mm THICK MEMORY MODULE PER JEDEC MO-244 FOR 244 CKTS AND MO-258 FOR 200 CKTS.
- PRODUCT SPECIFICATION : PS-87783-001.
- PRODUCT SHALL BE PACKED IN TRAY

- △ DATE CODE SHALL BE MARKED LEGIBLY AS SHOWN : YY DDD.
- △ PART NUMBER SHALL BE MARKED LEGIBLY AS SHOWN : 87783-XXXX (REFER TO TABLE).



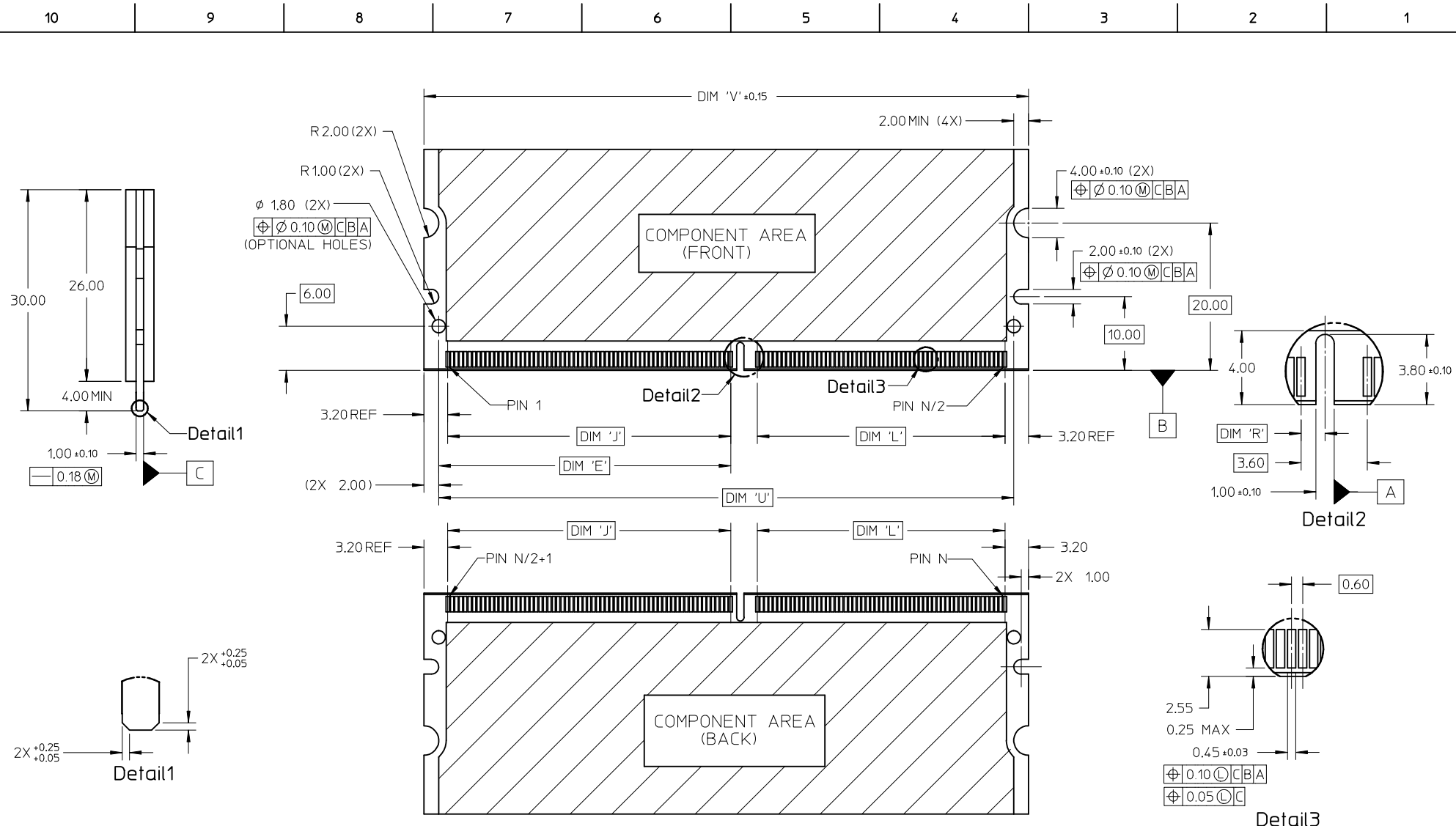
| | | | |
|-----------|-------------------|------------|-----------------|
| NEW COVER | EC NO: S2010-0004 | 2009/08/12 | QUALITY SYMBOLS |
| | DRWN: TARUUGHAM | 2009/08/12 | |
| | CHKD: CGTAN | 2009/08/17 | |
| | APPR: SHLENI | 2009/08/17 | |

| | |
|-------------|-----------------|
| DESCRIPTION | QUALITY SYMBOLS |
| | ▽=0 |
| | ◻=0 |

| GENERAL TOLERANCES (UNLESS SPECIFIED) | |
|--|--------|
| | mm |
| 4 PLACES | ± 0.15 |
| 3 PLACES | ± 0.20 |
| 2 PLACES | ± 0.25 |
| 1 PLACE | ± 0.30 |
| ANGULAR ± 1° | |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | |

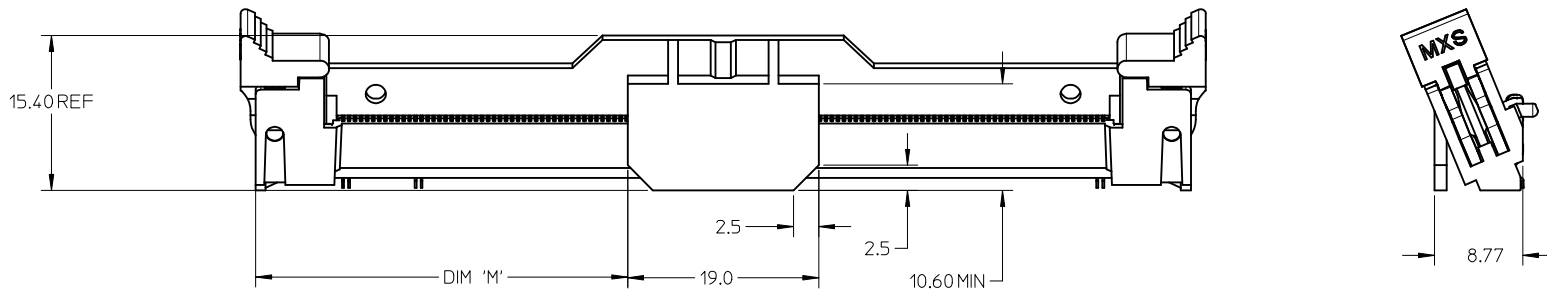
| DIMENSION STYLE | |
|-----------------|------------|
| MM ONLY | |
| DRAWN BY | DATE |
| MLONG | 2003/08/04 |
| CHECKED BY | DATE |
| SRRAMESH | 2004/11/19 |
| APPROVED BY | DATE |
| GGLEE | 2004/11/19 |
| MATERIAL NO. | |
| SEE TABLE | |

| | | |
|---|--------------|------------------------|
| SCALE | DESIGN UNITS | THIRD ANGLE PROJECTION |
| NTS | METRIC | |
| TITLE | | |
| ANGLE MINI DIMM | | |
| 0.6MM PITCH, 244/200 CKT | | |
| 22.5 DEG | | |
| MOLEX MOLEX INCORPORATED | | |
| MATERIAL NO. | DOCUMENT NO. | SHEET NO. |
| SEE TABLE | SD-87783-001 | 1 OF 5 |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | |



| NEW COVER EC NO: S2010-0004 DRWN: TARUNGHAM 2009/08/12 CHKD: CGTAN 2009/08/12 APPR: SILENI 2009/08/17 REV | QUALITY SYMBOLS ▽=0 ◻=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <tr> <td>4 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>3 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.13</td> <td>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± 0.25</td> <td>± ---</td> </tr> </tbody> </table> | | mm | INCH | 4 PLACES | ± --- | ± --- | 3 PLACES | ± --- | ± --- | 2 PLACES | ± 0.13 | ± --- | 1 PLACE | ± 0.25 | ± --- | DIMENSION STYLE MM ONLY | SCALE NTS | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION |
|---|--|--|-------------------------------------|------------------------------|---|--|-------|-------|----------|-------|-------|----------|--------|-------|---------|--------|-------|-----------------------------------|---------------------|-------------------------------|------------------------|
| | | mm | INCH | | | | | | | | | | | | | | | | | | |
| | 4 PLACES | ± --- | ± --- | | | | | | | | | | | | | | | | | | |
| | 3 PLACES | ± --- | ± --- | | | | | | | | | | | | | | | | | | |
| 2 PLACES | ± 0.13 | ± --- | | | | | | | | | | | | | | | | | | | |
| 1 PLACE | ± 0.25 | ± --- | | | | | | | | | | | | | | | | | | | |
| DESCRIPTION NEW COVER | DRAWN BY MLONG | DATE 2003/08/04 | TITLE ANGLE MINI DIMM | CHECKED BY SRAMESH | DATE 2004/11/19 | MOLEX INCORPORATED | | | | | | | | | | | | | | | |
| MATERIAL NO. SEE TABLE | APPROVED BY GGLEE | DATE 2004/11/19 | DOCUMENT NO. SD-87783-001 | SHEET NO. 2 OF 5 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | | | | | | | | | | | | | | |
| SIZE A3 | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | | | | | | | | | | | | | | | | | | | |

10 9 8 7 6 5 4 3 2 1



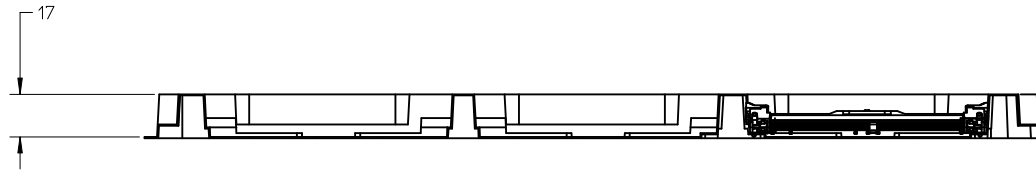
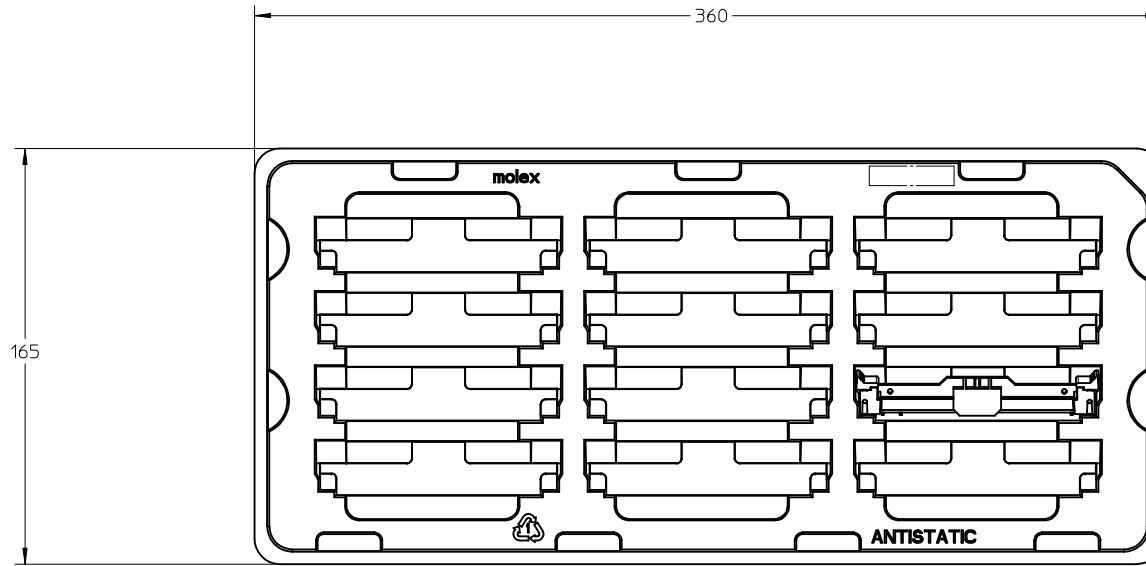
SHOWN WITH PICK & PLACE COVER

| CKT SIZE 'N' | PART NUMBER | MODULE CARD | VOLTAGE KEY | DIM 'R' | DIM 'E' | DIM 'J' | DIM 'L' | DIM 'M' | DIM 'P' | DIM 'G' | DIM 'S' | DIM 'T' | DIM 'U' | DIM 'V' | DIM 'W' | DIM 'X' | DIM 'Y' | DIM 'Z' | DIM 'A' | DIM 'B' |
|--------------|-------------|-------------|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 244 | 87783-0001 | DDR2 | 1.8 V | 1.30 | 39.60 | 38.40 | 33.60 | 37.0 | 79.0 | 89.80 | 96.0 | 106.20 | 78.00 | 82.00 | 78.0 | 82.00 | 96.20 | 42.50 | 93.0 | 75.60 |
| | 87783-0301 | DDR3 | 1.5 V | 2.30 | | | | | | | | | | | | | | | | |
| 200 | 87783-0201 | DDR2 | 1.8 V | 1.30 | 24.60 | 23.40 | 35.40 | 30.40 | 65.8 | 76.60 | 82.8 | 93.00 | 64.80 | 68.80 | 64.8 | 68.80 | 83.00 | 44.30 | 79.8 | 62.40 |
| | 87783-0202 | DDR | 2.5 V | 2.30 | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------------------------|--|------------------------------|---------------------|------|----------|-------|-------|----------|-------|-------|----------|--------|-------|---------|--------|-------|---------------|--|--|-----------------------------------|--------------|------------------------|------------------------|
| NEW COVER EC NO: S2010-0004 DRWN: TARUMUGHAM 2009/08/12 CH'KD: GGTAN 2009/08/12 APPR: SILENI 2009/08/17 | QUALITY SYMBOLS ▽=0 ▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <tr> <td></td> <td>mm</td> <td>INCH</td> </tr> <tr> <td>4 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>3 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.13</td> <td>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± 0.25</td> <td>± ---</td> </tr> <tr> <td colspan="3">ANGULAR ± 1 °</td> </tr> </table> | | mm | INCH | 4 PLACES | ± --- | ± --- | 3 PLACES | ± --- | ± --- | 2 PLACES | ± 0.13 | ± --- | 1 PLACE | ± 0.25 | ± --- | ANGULAR ± 1 ° | | | DIMENSION STYLE MM ONLY | SCALE NTS | DESIGN UNITS METRIC | THIRD ANGLE PROJECTION |
| | | mm | INCH | | | | | | | | | | | | | | | | | | | | | |
| | 4 PLACES | ± --- | ± --- | | | | | | | | | | | | | | | | | | | | | |
| | 3 PLACES | ± --- | ± --- | | | | | | | | | | | | | | | | | | | | | |
| 2 PLACES | ± 0.13 | ± --- | | | | | | | | | | | | | | | | | | | | | | |
| 1 PLACE | ± 0.25 | ± --- | | | | | | | | | | | | | | | | | | | | | | |
| ANGULAR ± 1 ° | | | | | | | | | | | | | | | | | | | | | | | | |
| DRAWN BY MLONG | DATE 2003/08/04 | TITLE ANGLE MINI DIMM 0.6MM PITCH, 244/200 CKT 22.5 DEG | | | | | | | | | | | | | | | | | | | | | | |
| CHECKED BY SRRAMESH | DATE 2004/11/19 | MOLEX INCORPORATED | | | | | | | | | | | | | | | | | | | | | | |
| APPROVED BY GGLEE | DATE 2004/11/19 | MATERIAL NO. SEE TABLE | DOCUMENT NO. SD-87783-001 | SHEET NO. 4 OF 5 | | | | | | | | | | | | | | | | | | | | |

9 8 7 6 5 4 3 2 1

10 9 8 7 6 5 4 3 2 1



VIEW OF PACKAGING TRAY

NOTES:

1. QTY OF CAVITY: 3 X 4 = 12 PCS

| | | | | | |
|--|---|--|--|--|--|
| NEW COVER EC NO: S2010-0004 TDRWN: TARUMUGHAM 2009/08/12 CHKD: CGTAN 2009/08/12 APPR: SHLENI 2009/08/17 | QUALITY SYMBOLS ▽=0 ◻=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.13 ± --- 1 PLACE ± 0.25 ± --- ANGULAR ± 1 ° | DIMENSION STYLE MM ONLY DRAWN BY DATE MLONG 2003/08/04 CHECKED BY DATE SRRAMESH 2004/11/19 APPROVED BY DATE GGLEE 2004/11/19 | SCALE NTS DESIGN UNITS METRIC THIRD ANGLE PROJECTION | TITLE ANGLE MINI DIMM 0.6MM PITCH, 244/200 CKT 22.5 DEG |
| | MATERIAL NO. SEE TABLE | DOCUMENT NO. SD-87783-001 | SHEET NO. 5 OF 5 | | |
| | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | | | |
| | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | | |

9 8 7 6 5 4 3 2 1