

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0877830202](#)  
**Status:** **Active**  
**Description:** 0.60mm (.024") Pitch miniDIMM DDR Socket, Surface Mount, 22.5° Angle, 0.76µm (30µ") Gold (Au) Plating, Off-White Latches, with Pick-and-Place Cap, 200 Circuits, 2.5V 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 <LI>Latches in Off-White Color  
 Component Type Socket  
 JEDEC Outline MO-258  
 Product Name MiniDIMM

**Physical**

Circuits (Loaded) 200  
 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

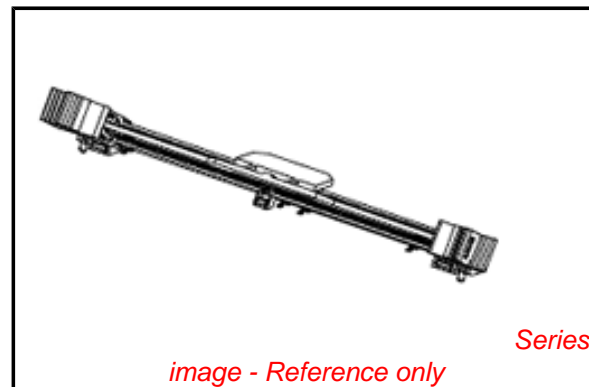
**Electrical**

Current - Maximum per Contact 1A  
 Voltage - Maximum 30V  
 Voltage Key 2.5V

**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](mailto: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-258 modules

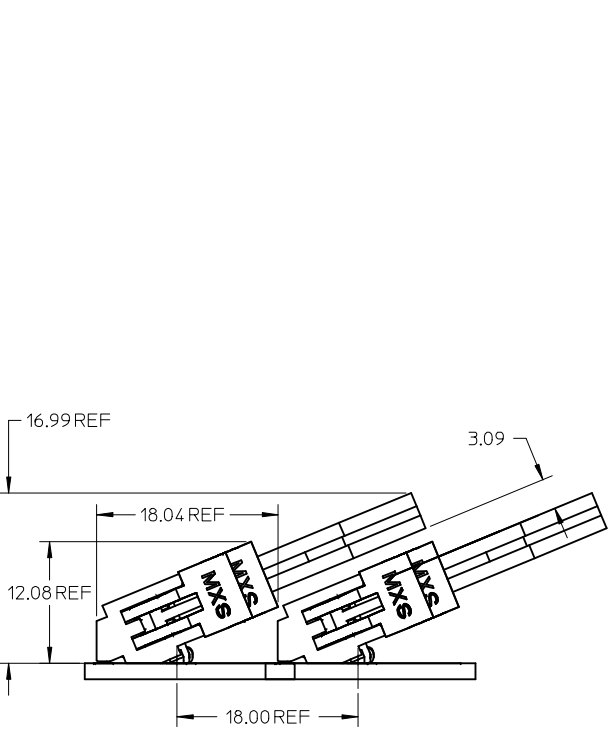
**Reference - Drawing Numbers**

Product Specification  
Sales Drawing

PS-87783-001  
SD-87783-001

This document was generated on 04/13/2010

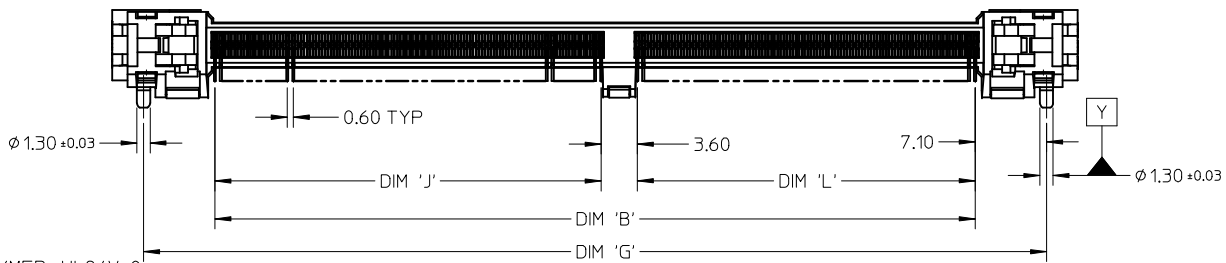
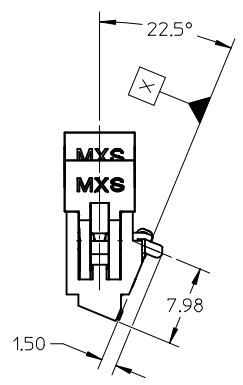
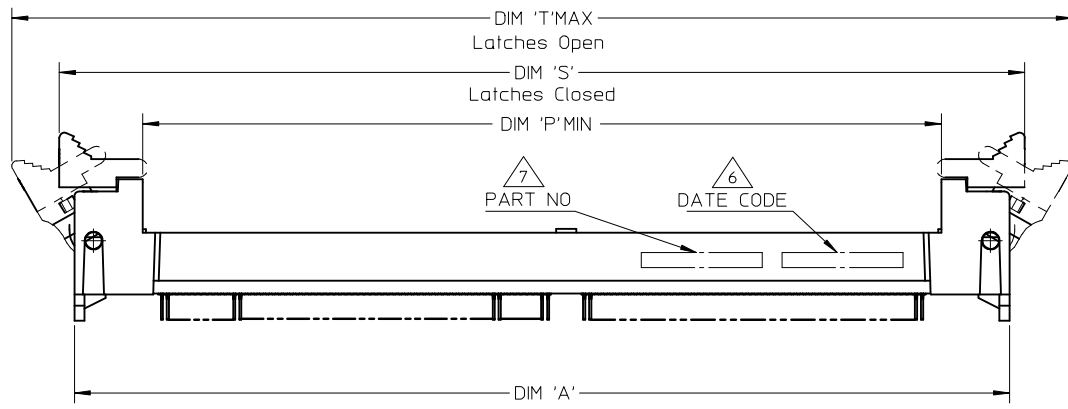
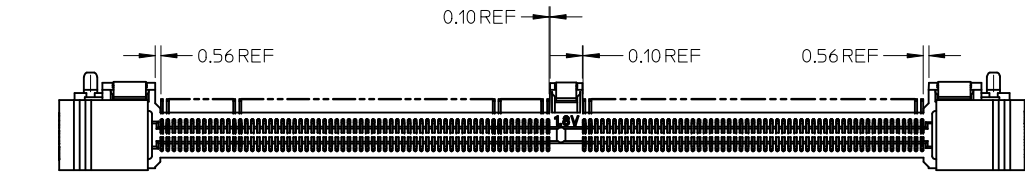
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MINIMUM HEIGHT OF SOCKET WITH MODULE CARD HEIGHT OF 30.00MM AND THICKNESS OF 4MM.

- 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).



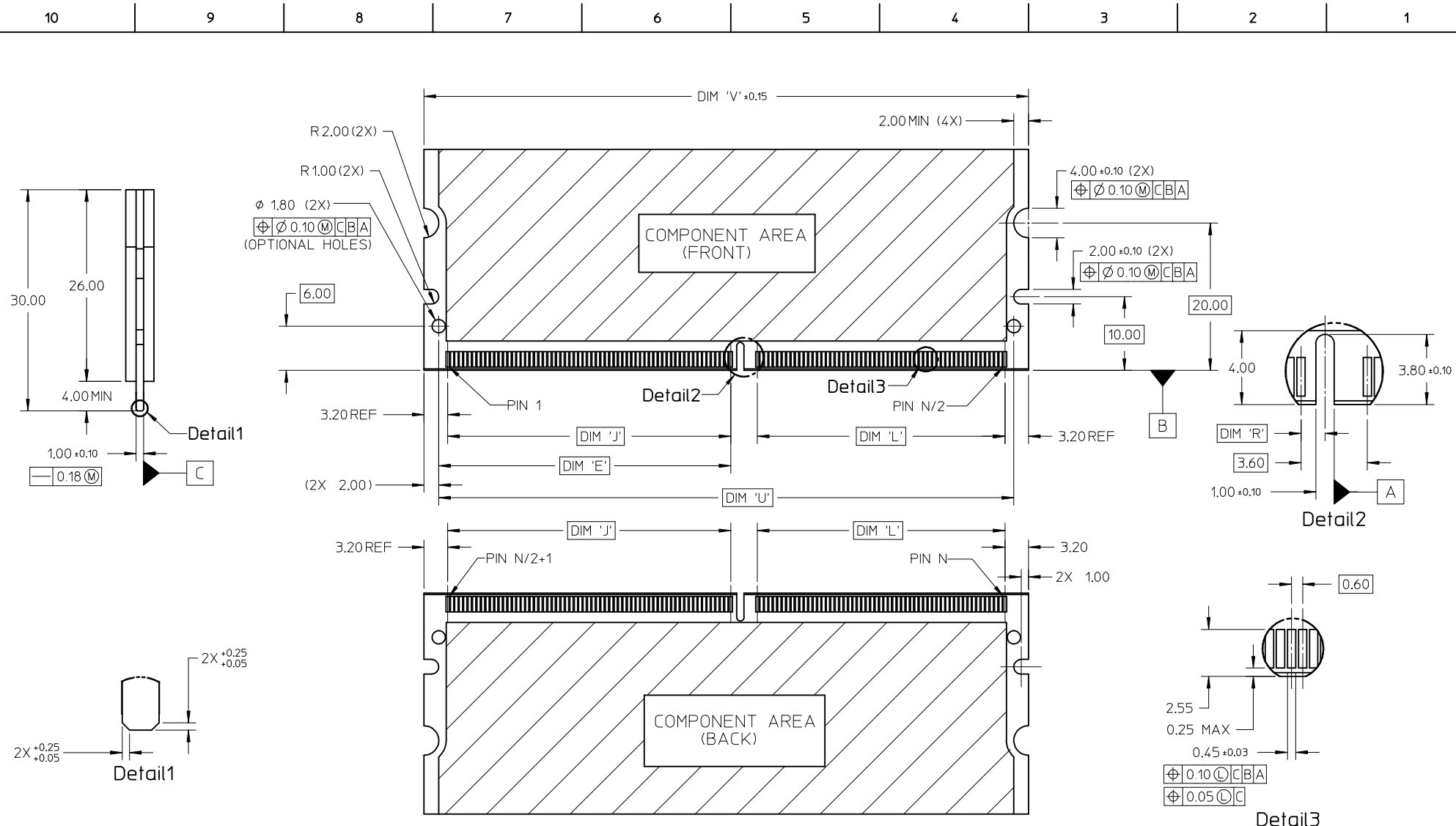
NEW COVER	EC NO: S2010-0004	2009/08/12	DESCRIPTION
	DRWN: TARUUGHAM	2009/08/12	
	CHKD: CGTAN	2009/08/17	
	APPR: SHLENI	2009/08/17	

QUALITY SYMBOLS	▽=0
	∇=0

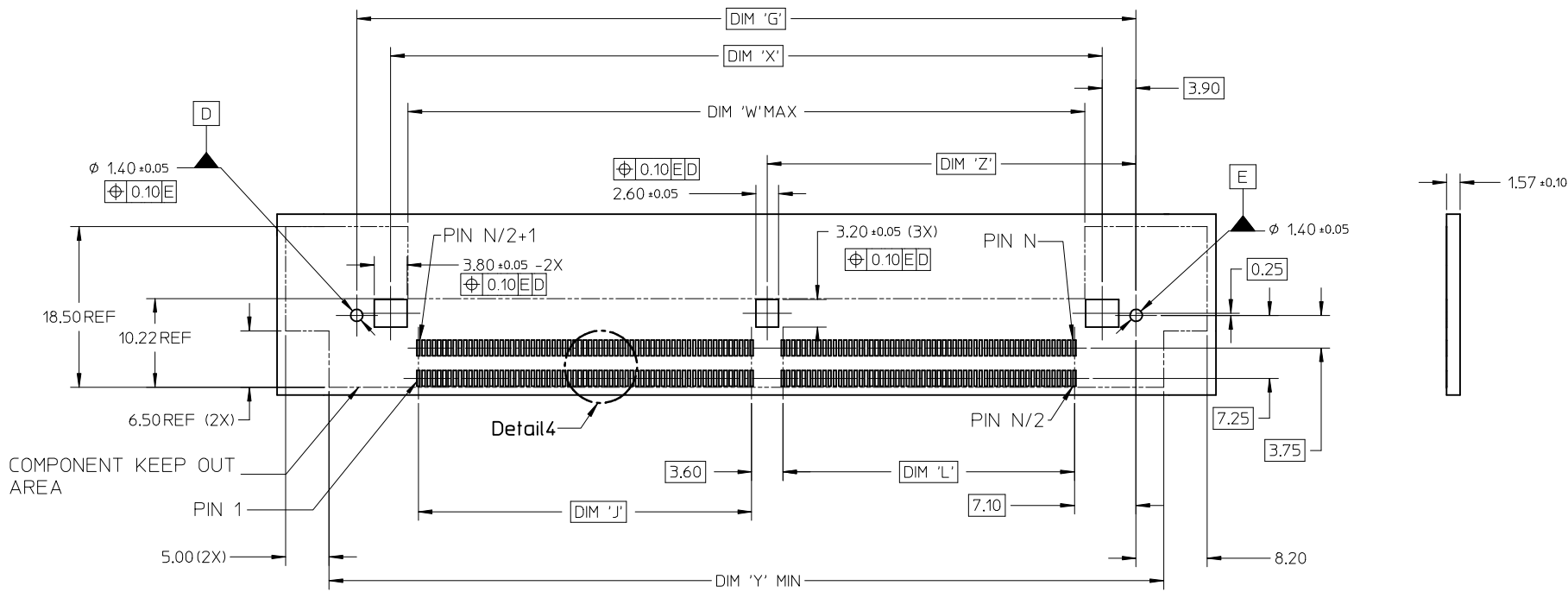
GENERAL TOLERANCES (UNLESS SPECIFIED)	
	mm INCH
4 PLACES	± --- ± ---
3 PLACES	± --- ± ---
2 PLACES	± 0.13 ± ---
1 PLACE	± 0.25 ± ---
ANGULAR ± 1 °	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

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	

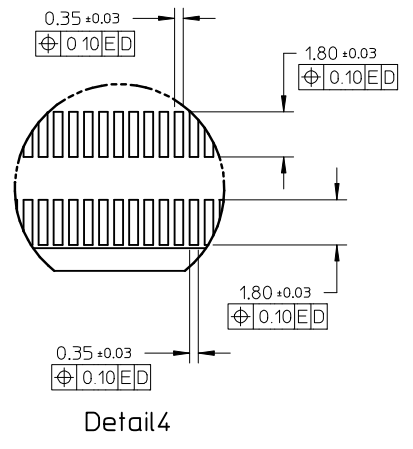
SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
NTS	METRIC	
TITLE		
ANGLE MINI DIMM		
0.6MM PITCH, 244/200 CKT		
22.5 DEG		
MOLEX MOLEX INCORPORATED		
MATERIAL NO.	DOCUMENT NO.	SHEET NO.
SEE TABLE	SD-87783-001	1 OF 5
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT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



<b>NEW COVER</b> 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 <b>MM ONLY</b>	SCALE <b>NTS</b>	DESIGN UNITS <b>METRIC</b>	THIRD ANGLE PROJECTION
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DESCRIPTION <b>ANGLE MINI DIMM</b> <b>0.6MM PITCH, 244/200 CKT</b> <b>22.5 DEG</b>	DRAWN BY <b>MLONG</b>	DATE <b>2003/08/04</b>	TITLE <b>ANGLE MINI DIMM</b> <b>0.6MM PITCH, 244/200 CKT</b> <b>22.5 DEG</b>	CHECKED BY <b>SRAMESH</b>	DATE <b>2004/11/19</b>	APPROVED BY <b>GGLEE</b>	DATE <b>2004/11/19</b>														
MATERIAL NO. <b>SEE TABLE</b>	MOLEX INCORPORATED	DOCUMENT NO. <b>SD-87783-001</b>	SHEET NO. <b>2 OF 5</b>	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																	
SIZE <b>A3</b>	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																				

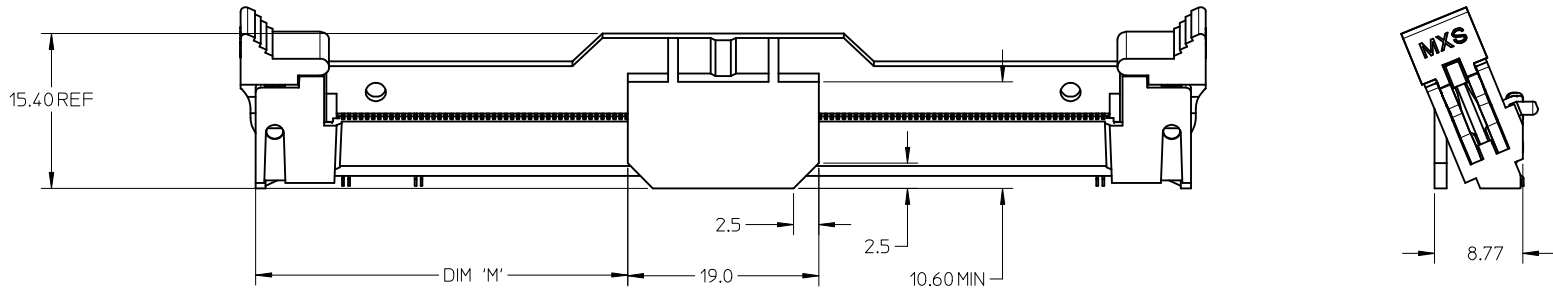


RECOMMENDED PCB LAYOUT



<b>NEW COVER</b> EC NO: S2010-0004 DRWN: TARUMUGHAM 2009/08/12 CHKD: GGTAN 2009/08/12 APPR: SILENI 2009/08/17	QUALITY SYMBOLS ▼ = 0 ∇ = 0	<b>GENERAL TOLERANCES (UNLESS SPECIFIED)</b>		<b>DIMENSION STYLE</b> MM ONLY	SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
				DRAWN BY MLONG	DATE 2003/08/04	TITLE <b>ANGLE MINI DIMM</b>			
				CHECKED BY SRRAMESH	DATE 2004/11/19	<b>0.6MM PITCH, 244/200 CKT</b>			
				APPROVED BY GGLEE	DATE 2004/11/19	<b>22.5 DEG</b>			
		ANGULAR ± 1°		MATERIAL NO. <b>SEE TABLE</b>		MOLEX INCORPORATED		SHEET NO. 3 OF 5	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE <b>A3</b>		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

10 9 8 7 6 5 4 3 2 1



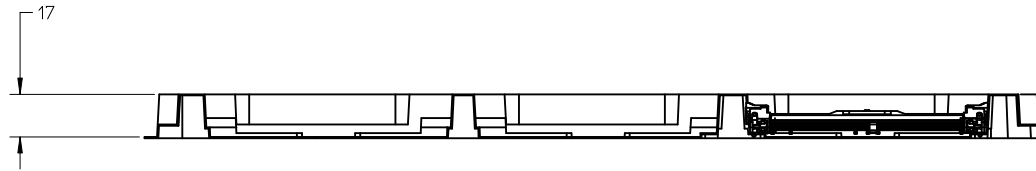
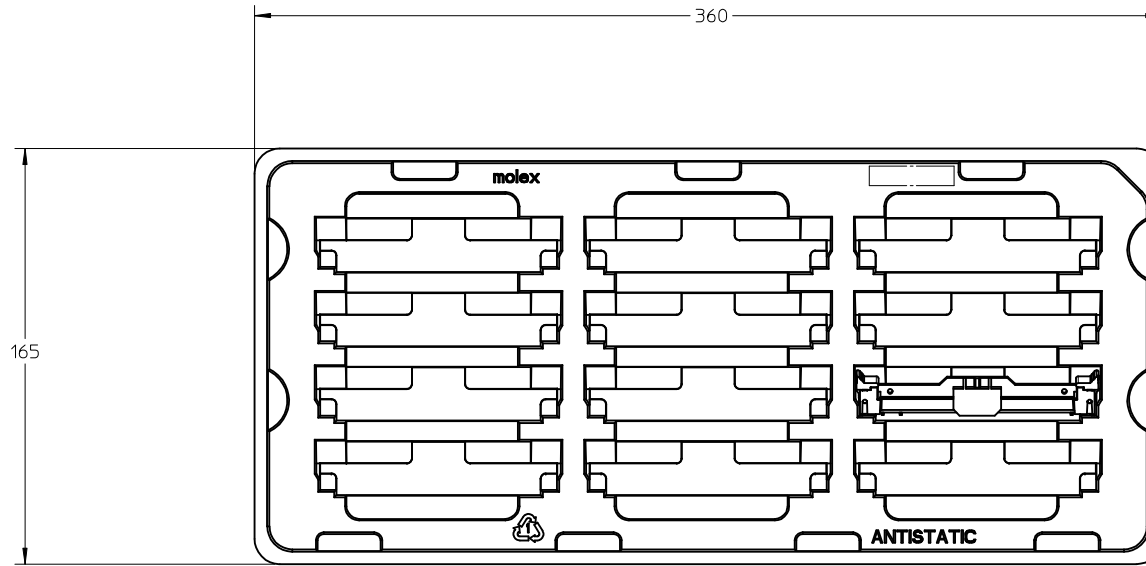
SHOWN WITH PICK & PLACE COVER

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																

<b>NEW COVER</b> 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 <b>MM ONLY</b>	SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
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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

<b>NEW COVER</b> 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)		DIMENSION STYLE <b>MM ONLY</b>		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.13 ± --- 1 PLACE ± 0.25 ± ---	mm INCH ± --- ± --- ± 0.13 ± --- ± 0.25 ± ---	DRAWN BY MLONG	DATE 2003/08/04	TITLE ANGLE MINI DIMM 0.6MM PITCH, 244/200 CKT 22.5 DEG			
		ANGULAR ± 1 °		CHECKED BY SRRAMESH	DATE 2004/11/19	MOLEX INCORPORATED			
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPROVED BY GGLEE	DATE 2004/11/19	MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-87783-001	SHEET NO. 5 OF 5	

9 8 7 6 5 4 3 2 1

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- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
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Web: <http://oceanchips.ru/>

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