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Part Number: [0783150001](#)
Status: **Active**
Description: 1.00mm (.039") Pitch DDR3 DIMM Socket, Very Low Profile, Vertical, Press-Fit, with Pegs, Black Housing and Latches, 0.76µm (30µ") Gold (Au)Plating, 1.85mm (.073") Compliant Pin Length, 2.40mm (.094") PCB Thickness, 240 Circuits, Lead free

Documents:

[3D Model](#) [Product Specification PS-78315-001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980
 UL E29179

General

Product Family Memory Module Sockets
 Series [78315](#)
 Component Type Socket
 JEDEC Outline MO-269
 Product Name DDR3 DIMM

Physical

Circuits (Loaded) 240
 Circuits (maximum) 240
 Color - Resin Black
 Durability (mating cycles max) 25
 Entry Angle Vertical
 Flammability 94V-0
 Function Key None
 Keying to Mating Part Yes
 Material - Metal Copper Alloy
 Material - Plating Mating Gold
 Material - Plating Termination Tin
 Material - Resin Nylon
 PC Tail Length (in) 0.073 In
 PC Tail Length (mm) 1.85 mm
 PCB Locator Yes
 PCB Retention Yes
 PCB Thickness Recommended (in) 0.095 In
 PCB Thickness Recommended (mm) 2.40 mm
 Packaging Type Tray
 Pitch - Mating Interface (in) 0.039 In
 Pitch - Mating Interface (mm) 1.00 mm
 Pitch - Term. Interface (in) 0.039 In
 Pitch - Term. Interface (mm) 1.00 mm
 Plating min: Mating (µin) 30
 Plating min: Mating (µm) 0.76
 Plating min: Termination (µin) 15
 Plating min: Termination (µm) 0.38
 Temperature Range - Operating -55°C to +85°C
 Termination Interface: Style Through Hole - Compliant Pin

Electrical

Current - Maximum per Contact 1A
 Voltage - Maximum 30V AC (RMS)/DC
 Voltage Key Center

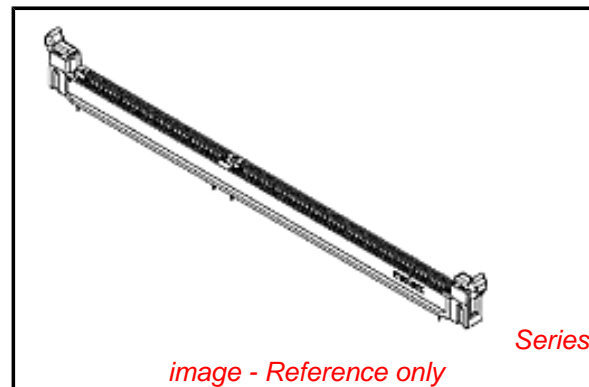


image - Reference only

EU RoHS

**ELV and RoHS
 Compliant**
**REACH SVHC
 Contains SVHC: No**
**Halogen-Free
 Status**

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

[78315Series](#)

Mates With

JEDEC standard 1.27mm modules

Material Info

Reference - Drawing Numbers

Product Specification

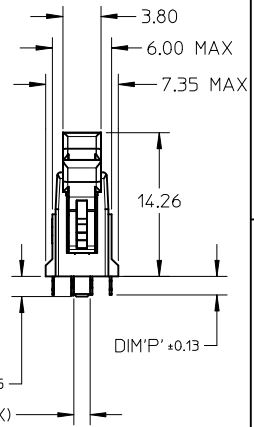
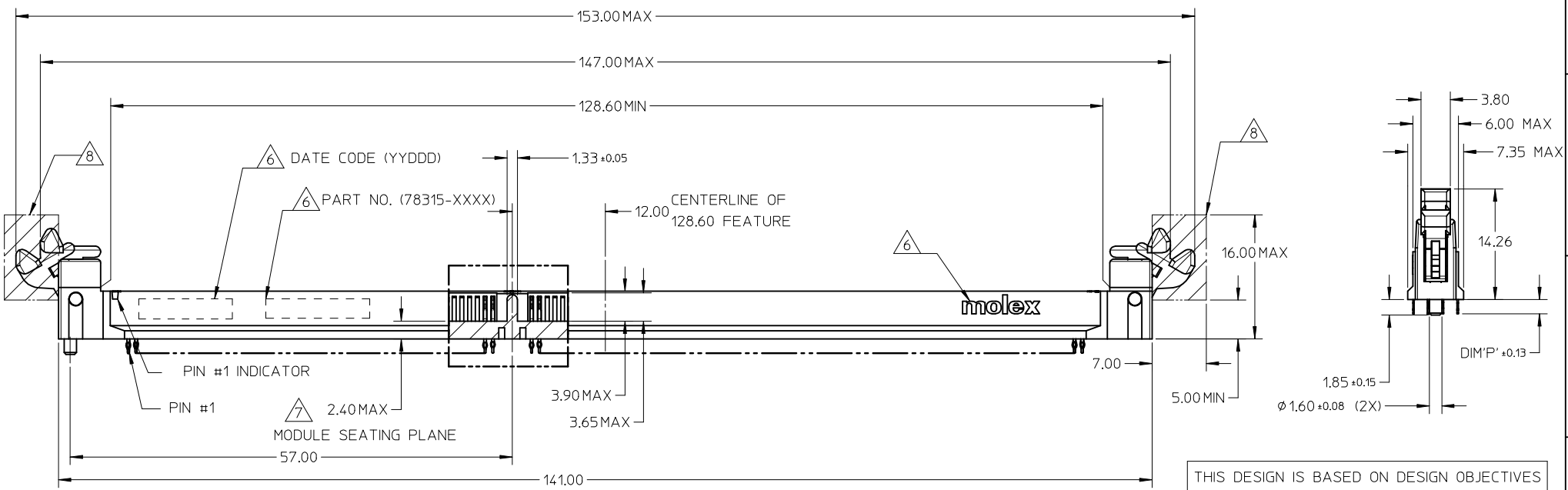
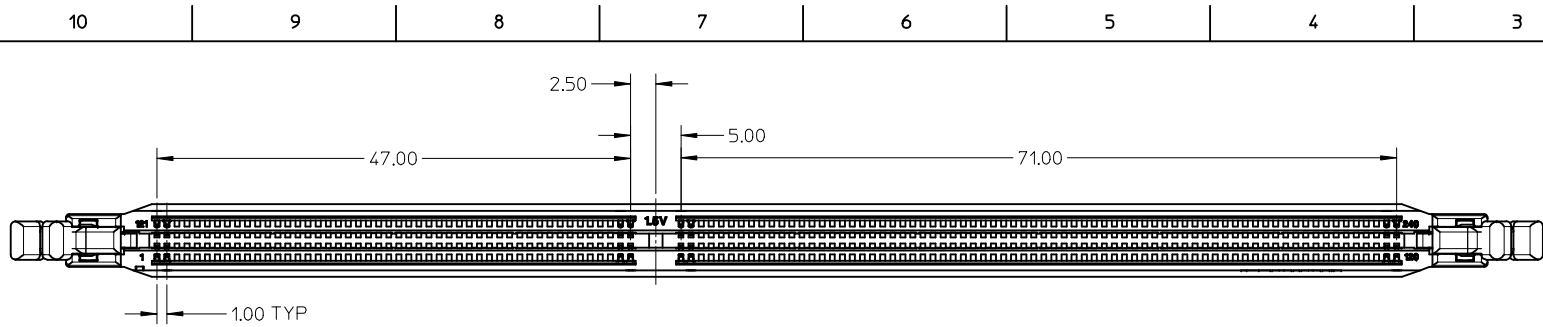
Sales Drawing

PS-78315-001, RPS-78315-001

SD-78315-001

This document was generated on 04/13/2010

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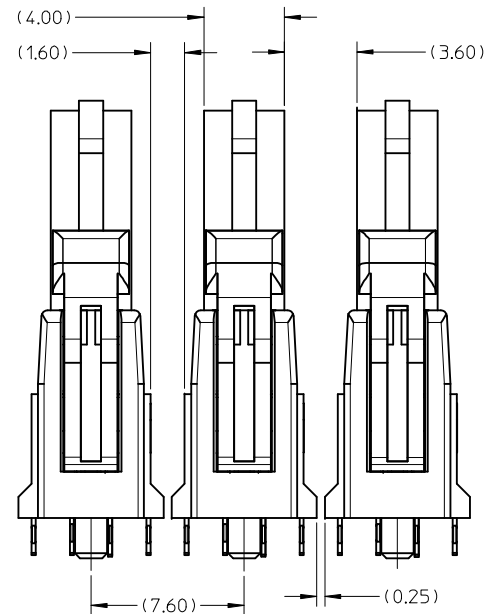
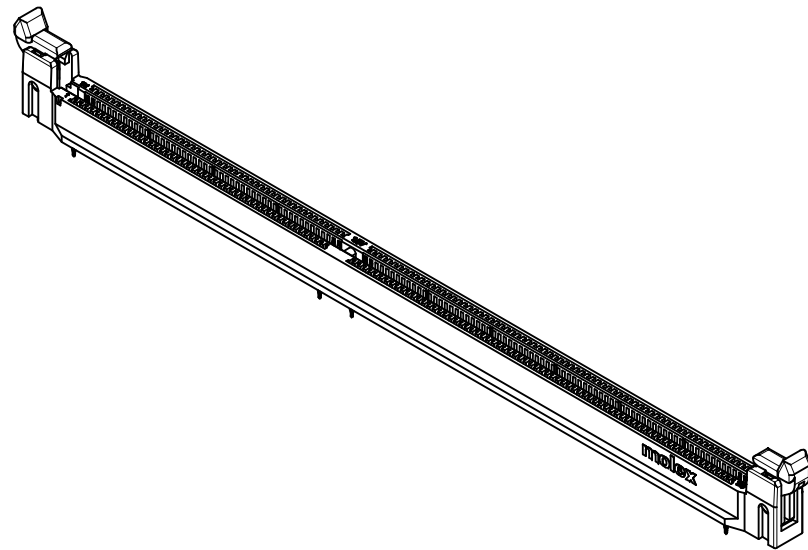
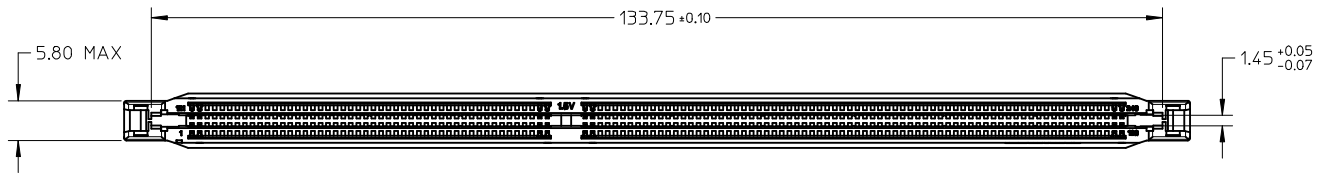


THIS DESIGN IS BASED ON DESIGN OBJECTIVES AND IS STRICTLY TENTATIVE. IT MAY CHANGE BASED ON RESULTS OF ADDITIONAL DESIGN REVIEWS & VERIFICATIONS.

- NOTES:
- MATERIAL:
HOUSING - POLYAMIDE (PA) GLASS FILLED, UL 94V-0, COLOR - BLACK
LATCH - POLYAMIDE (PA) GLASS FILLED, UL 94V-0, COLOR - BLACK
TERMINAL - COPPER ALLOY
 - FINISHES: TERMINAL PLATING SEE TABLE ON SHEET 5
 - PRODUCT SPECIFICATION: PS-78315-001
 - PACKAGING SPECIFICATION: PRODUCT SHALL BE PACKED IN TRAYS
 - CARD SLOT ACCEPTS 1.27 +/- 0.10MM MODULE THICKNESS (MEASURED FROM PC PADS)
- △ 6 MOLEX LOGO, DATE & PART NUMBERS INDICATED ON HOUSING
 △ 7 MODULE SEATING PLANE FROM TOP OF PCB
 △ 8 KEEP OUT ZONE RESERVED FOR LATCH

ADDED OPTION EC NO: S2009-0332 DRW: CCTEH CHKD: CGTAN APPR: SHLENI	2009/05/25 2009/05/25 2009/05/27	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			▽=0 ◻=0	mm	INCH	DRAWN BY CMTEO	DATE 2008/07/17	TITLE DDR3 DIMM (LSP, VLP) 1.00MM PITCH, 240 CKTS VERTICAL P/F, LOWLLCR				
				4 PLACES ± --- ± ---	3 PLACES ± --- ± ---	CHECKED BY CCTEH	DATE 2008/07/30	MOLEX INCORPORATED				
				2 PLACES ± 0.20 ± ---	1 PLACE ± --- ± ---	APPROVED BY SHLENI	DATE 2008/08/01	DOCUMENT NO. SD-78315-001				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				ANGULAR ± 1 °		MATERIAL NO. SEE TABLE		SHEET NO. 1 OF 6				
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



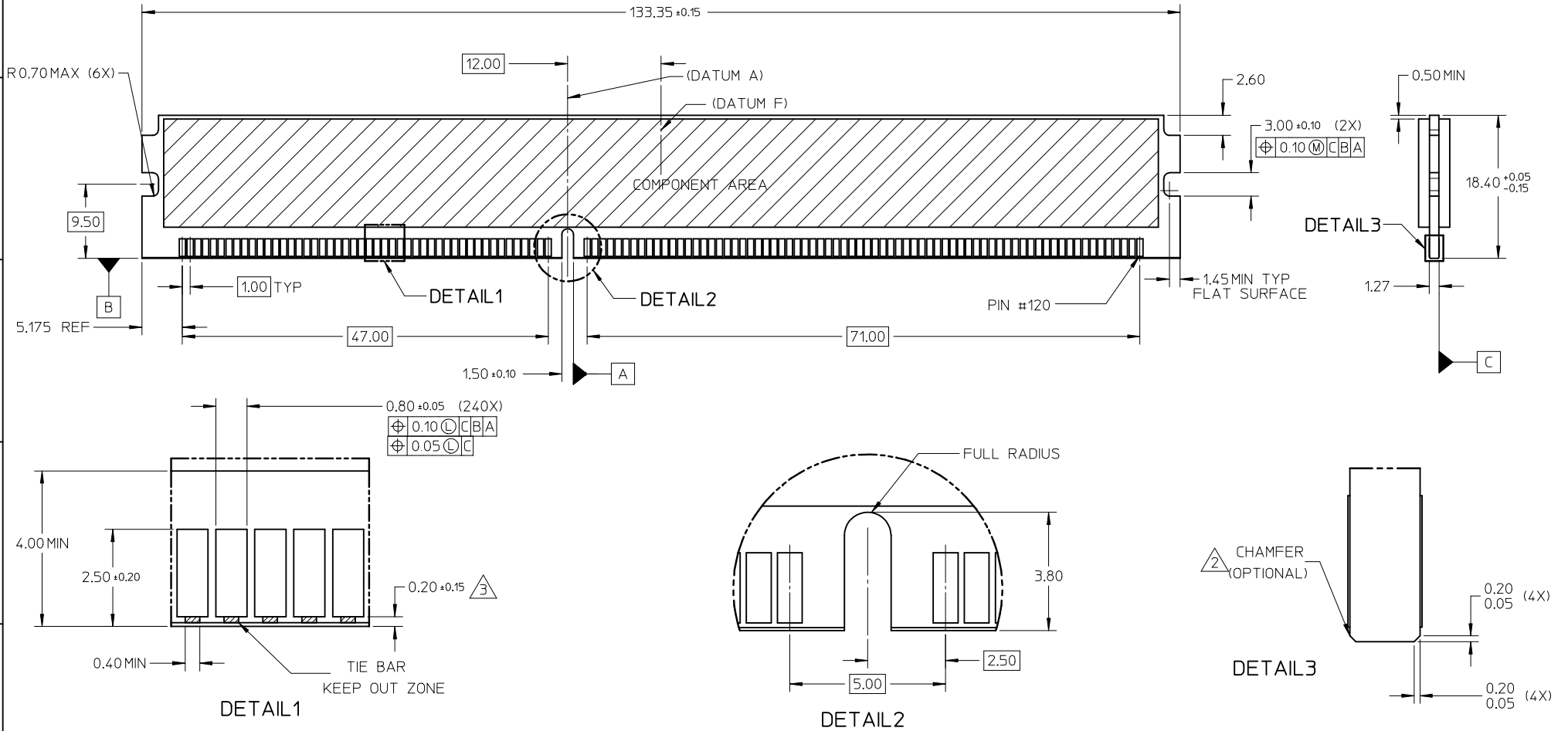
MINIMUM ROW TO ROW SPACING RECOMMENDATION
(USING 4.00MM MODULE CARD)

ADDED OPTION EC NO: S2009-0332 DRWN: CCTEH 2009/05/25 CHKD: CGTAN 2009/05/25 APPR: SHLENI 2009/05/27	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY CMTEO	DATE 2008/07/17	TITLE DDR3 DIMM (LSP, VLP) 1.00MM PITCH, 240 CKTS VERTICAL P/F, LOWLLCR			
		4 PLACES	± ---	± ---	CHECKED BY CCTEH	DATE 2008/07/30	MOLEX INCORPORATED			
		3 PLACES	± ---	± ---	APPROVED BY SHLENI	DATE 2008/08/01	MATERIAL NO.	DOCUMENT NO.	SHEET NO.	
	2 PLACES	± 0.20	± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-78315-001		
	1 PLACE	± ---	± ---	SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
	ANGULAR ± 1 °									

9 8 7 6 5 4 3 2 1

10 9 8 7 6 5 4 3 2 1

009MODULE CARD
 DDR3 DUAL INLINE MEMORY MODULE FAMILY 1.00 CONTACT CENTERS
 (JEDEC MO-269, ISSUE A, 12/05)



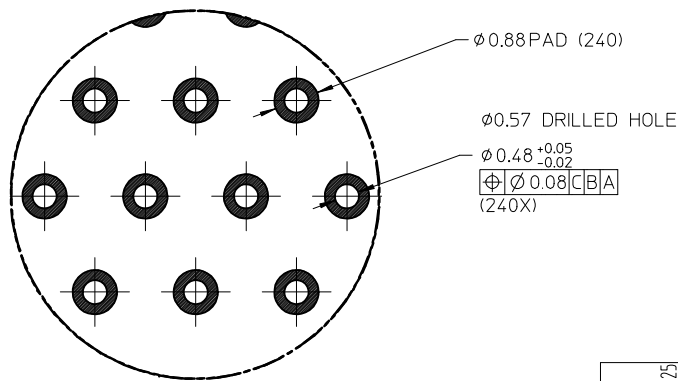
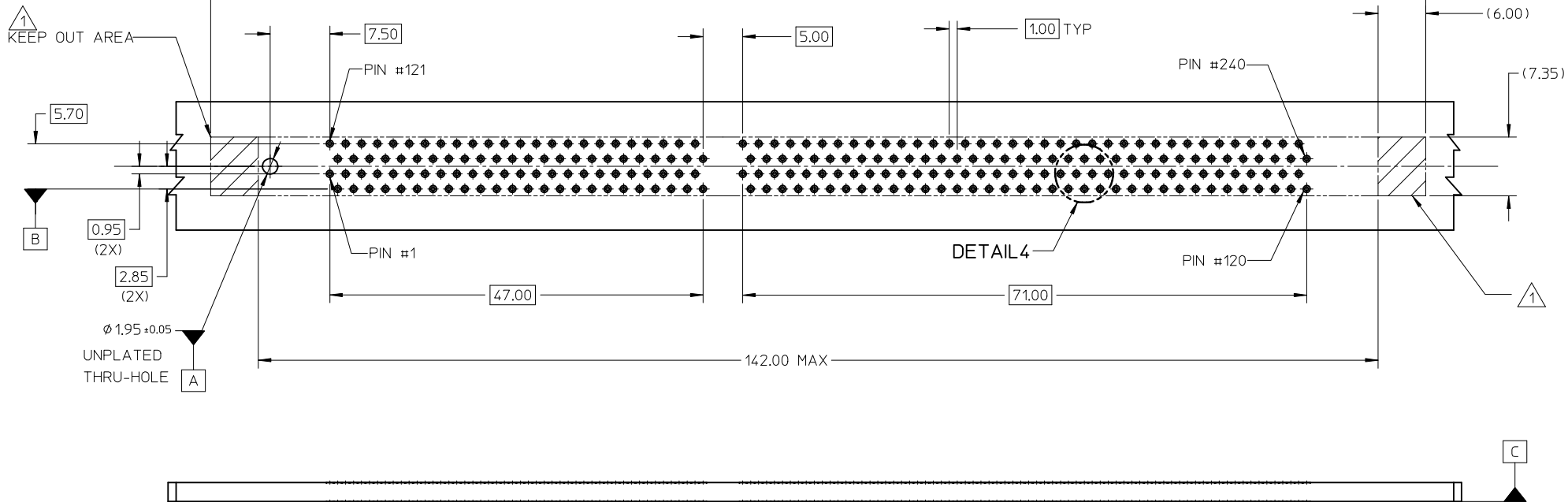
NOTES:

- RECOMMENDED PLATING FOR CONTACT PADS:
 PREFERRED: 0.76 MICROMETERS GOLD PLATING MIN
 OVER 2.00 MICROMETERS NICKEL
 ALTERNATIVE: 0.05-0.75 MICROMETERS GOLD PLATING
 OVER 2.00 MICROMETERS NICKEL MUST
 USE AN ELECTRONIC CONTACT GRADE
 CORROSIVE BARRIER LUBRICANT
- CHAMFER IS OPTIONAL AND IS NOT TO HIT THE GOLD PADS
- LEADING EDGE OF GOLD PADS SPECIFIED BY KEEPOUT ZONE
 SHALL BE FREE OF BURRS AND EXTERNAL TIE BARS

ADDED OPTION EC NO: S2009-0332 DRWN: CCTEH 2009/05/25 CHKD: CGTAN 2009/05/25 APPR: SHLENI 2009/05/27	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		mm	INCH	DRAWN BY	DATE	TITLE				
		4 PLACES ± ---	± ---	CMTEO	2008/07/17	DDR3 DIMM (LSP, VLP)				
		3 PLACES ± ---	± ---	CCTEH	2008/07/30	1.00MM PITCH, 240 CKTS				
		2 PLACES ± 0.20	± ---	APPROVED BY	DATE	MOLEX INCORPORATED				
		1 PLACE ± ---	± ---	SHLENI	2008/08/01	SD-78315-001				
		ANGULAR ± 1 °		MATERIAL NO.		DOCUMENT NO.				
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SHEET NO. 3 OF 6				
		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

10 9 8 7 6 5 4 3 2 1



DETAIL 4

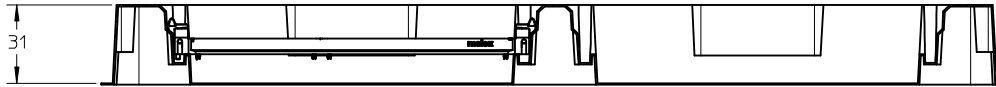
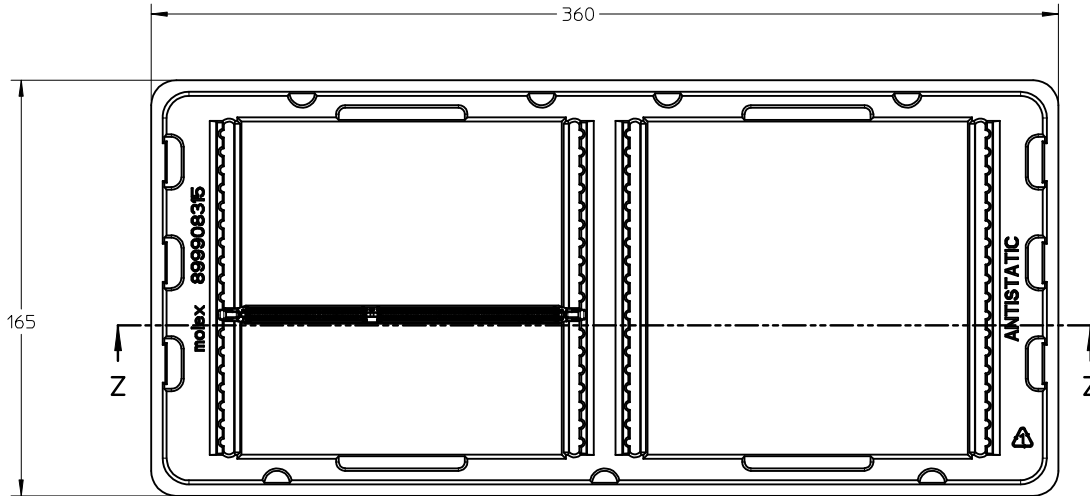
NOTES:

1. KEEP-OUT AREA IS THE AREA WHERE THE CONNECTOR (INCLUDING LATCH) IS MOUNTED ON THE PCB

ADDED OPTION EC NO: S2009-0332 DRWN: CCTEH 2009/05/25 CHKD: CGTAN 2009/05/25 APPR: SHLENI 2009/05/27	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- ANGULAR ± 1 °	DIMENSION STYLE MM ONLY DRAWN BY: CMTEO CHECKED BY: CCTEH APPROVED BY: SHLENI MATERIAL NO.	SCALE NTS DESIGN UNITS METRIC THIRD ANGLE PROJECTION	DATE: 2008/07/17 DATE: 2008/07/30 DATE: 2008/08/01 DATE: 2008/08/01	TITLE DDR3 DIMM (LSP, VLP) 1.00MM PITCH, 240 CKTS VERTICAL P/F, LOWLLCR molex MOLEX INCORPORATED	DOCUMENT NO. SD-78315-001	SHEET NO. 4 OF 6	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3	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

VIEW FOR PACKAGING TRAY



SECTION Z-Z

NOTE:

1. NO. OF CAVITY - 18 X 2 =36

ADDED OPTION EC NO: S2009-0332 U DRWN: CCTEH 2009/05/25 CHKD: CGTAN 2009/05/25 APPR: SHLENI 2009/05/27	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	▼=0 □=0	mm	INCH	MM ONLY	NTS	METRIC		
		4 PLACES	± ---	± ---	DRAWN BY	DATE	TITLE	
		3 PLACES	± ---	± ---	CMTEO	2008/07/17	DDR3 DIMM (LSP, VLP)	
	2 PLACES	± 0.20	± ---	CHECKED BY	DATE	1.00MM PITCH, 240 CKTS		
	1 PLACE	± ---	± ---	CCTEH	2008/07/30	VERTICAL P/F, LOWLLCR		
		ANGULAR ± 1 °		APPROVED BY	DATE	MOLEX INCORPORATED		
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SHLENI	2008/08/01	SD-78315-001		
				MATERIAL NO.	SEE TABLE	DOCUMENT NO.	SHEET NO.	
				SIZE	A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

PART NO.	KEY POS.	DIM 'P'	RECOMMENDED PCB THICKNESS	PLATING OPTION	
				CONTACT AREA	TAIL AREA
78315-0001	CENTER (1.5V)	1.85	2.40	0.76 MICROMETER/ 30 MICROINCH MIN. GOLD OVER 1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE	0.38 TO 1.52 MICROMETER/15 TO 60 MICROINCH MIN TIN (MATT) OVER 1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE
78315-0201				0.76 MICROMETER/ 30 MICROINCH MIN. GOLD OVER 1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE	0.38 TO 1.52 MICROMETER/15 TO 60 MICROINCH MIN TIN/LEAD (BRIGHT) OVER 1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE
78315-0011		2.85	2.60	0.76 MICROMETER/ 30 MICROINCH MIN. GOLD OVER 1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE	0.38 TO 1.52 MICROMETER/15 TO 60 MICROINCH MIN TIN (MATT) OVER 1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE

ADDED OPTION EC NO: S2009-0332 DRWN: CCTEH 2009/05/25 CHKD: CGTAN 2009/05/25 APPR: SHLENI 2009/05/27	QUALITY SYMBOLS =0 =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY	DATE	TITLE			
		4 PLACES	± ---	± ---	CMTEO	2008/07/17	DDR3 DIMM (LSP, VLP) 1.00MM PITCH, 240 CKTS VERTICAL P/F, LOWLLCR			
		3 PLACES	± ---	± ---	CCTEH	2008/07/30				
2 PLACES	± 0.20	± ---	APPROVED BY		DATE	MOLEX INCORPORATED				
1 PLACE	± ---	± ---	SHLENI		2008/08/01					
ANGULAR ± 1 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		DOCUMENT NO.		SHEET NO.		
				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				