

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0785430151

Status:

Active

Description:

1.00mm (.039") Pitch DDR3 DIMM Socket, Vertical, Through Hole, with Beveled Metal Pins, Off-White Housing and Latches, 0.38µm (15µ") Gold (Au) Plating, 2.67mm(.105") Solder tail, 240 Circuits, Lead free, Halogenfree

Documents:

Drawing (PDF)

Product Specification PS-78543-001 (PDF)

RoHS Certificate of Compliance (PDF)

General

Product Family	Memory Module Sockets
Series	78543
Component Type	Socket
JEDEC Outline	MO-269
Product Name	DDR3 DIMM

Physical

Circuits (Loaded)	240
Circuits (maximum)	240
Color - Resin	Natural
Durability (mating cycles max)	25
Entry Angle	Vertical
Function Key	None
Keying to Mating Part	Yes
Material - Metal	Copper Alloy
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
PC Tail Length (in)	0.105 In
PC Tail Length (mm)	2.67 mm
PCB Locator	No
PCB Retention	Yes
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.57 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)	15
Plating min: Mating (µm)	0.38
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.54
Temperature Range - Operating	-55°C to +85°C
Termination Interface: Style	Through Hole

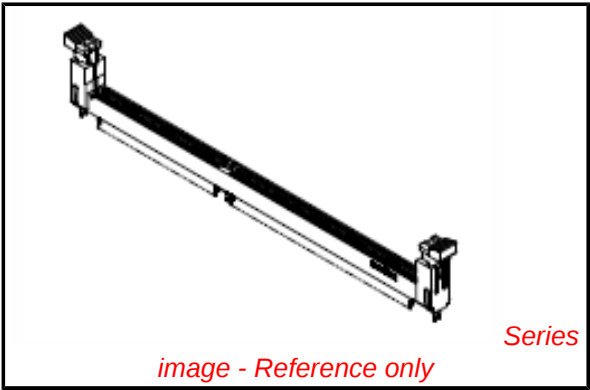
Electrical

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

Material Info

Reference - Drawing Numbers

Packaging Specification	PK-78543-001
Product Specification	PS-78543-001



EU RoHS

ELV and RoHS
Compliant
REACH SVHC
Not Reviewed
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](#)

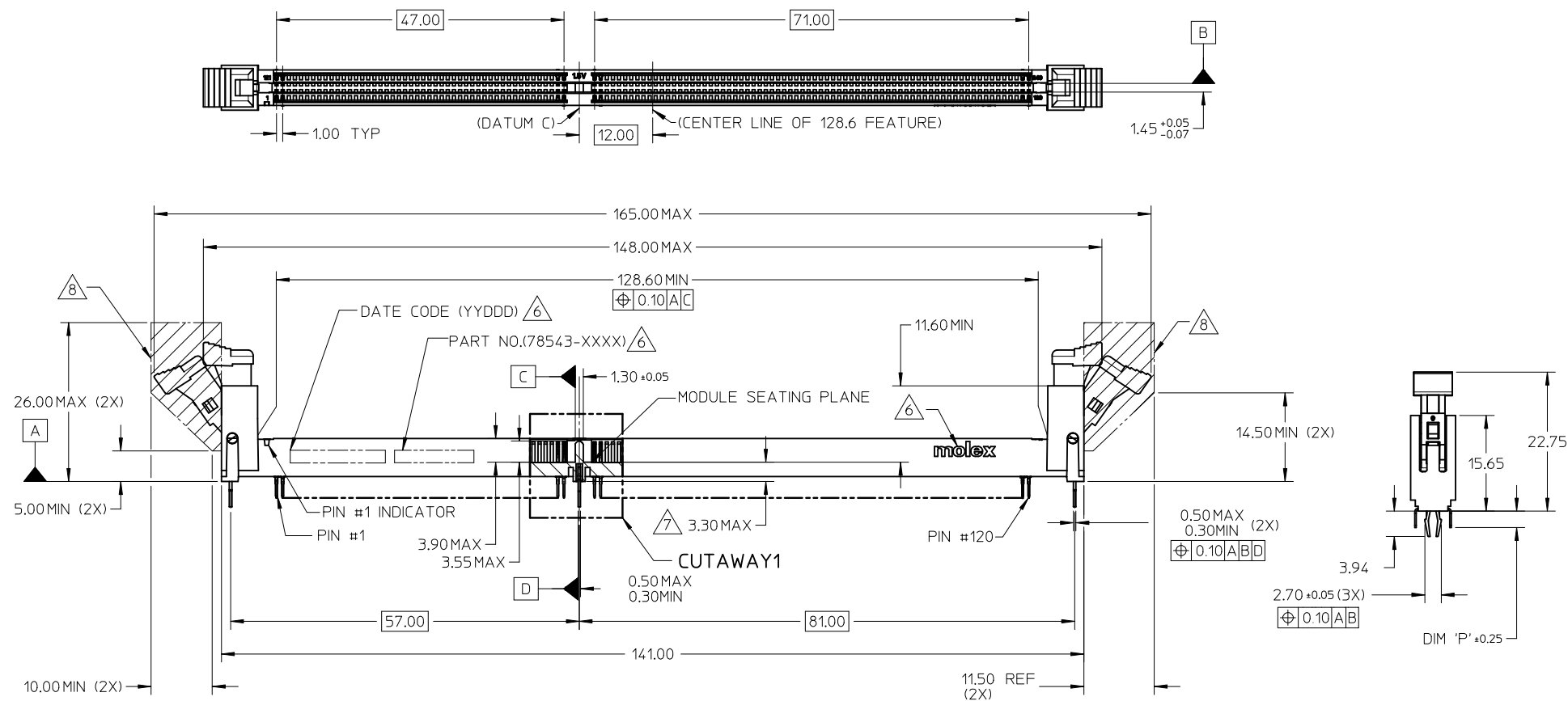
Please visit the [Contact Us](#) section for any
non-product compliance questions.

Search Parts in this Series
78543Series

Mates With
JEDEC standard 1.27mm modules

This document was generated on 05/17/2010

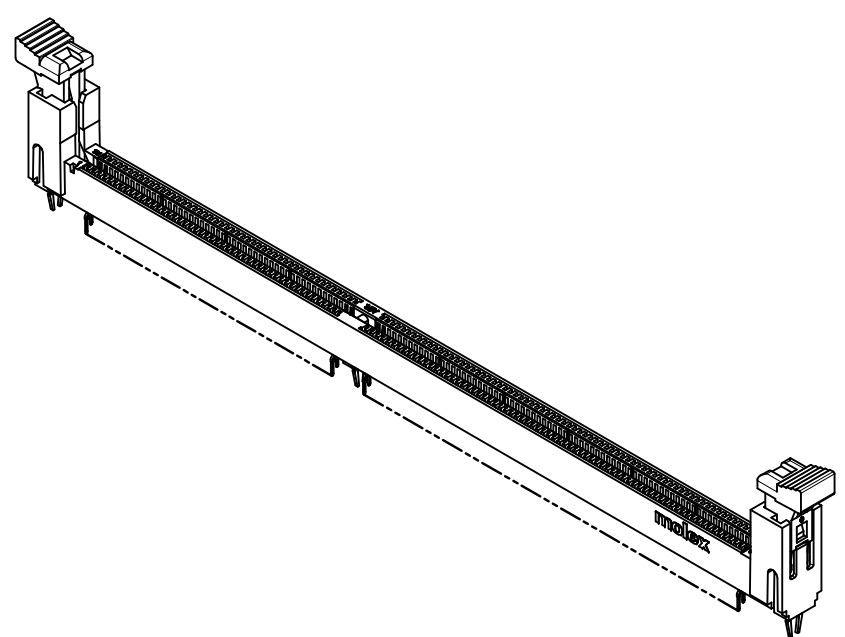
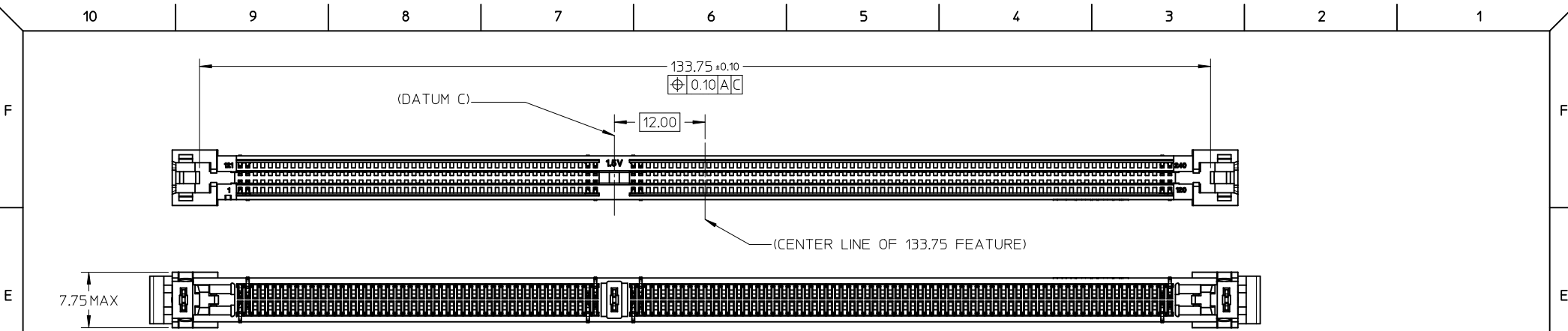
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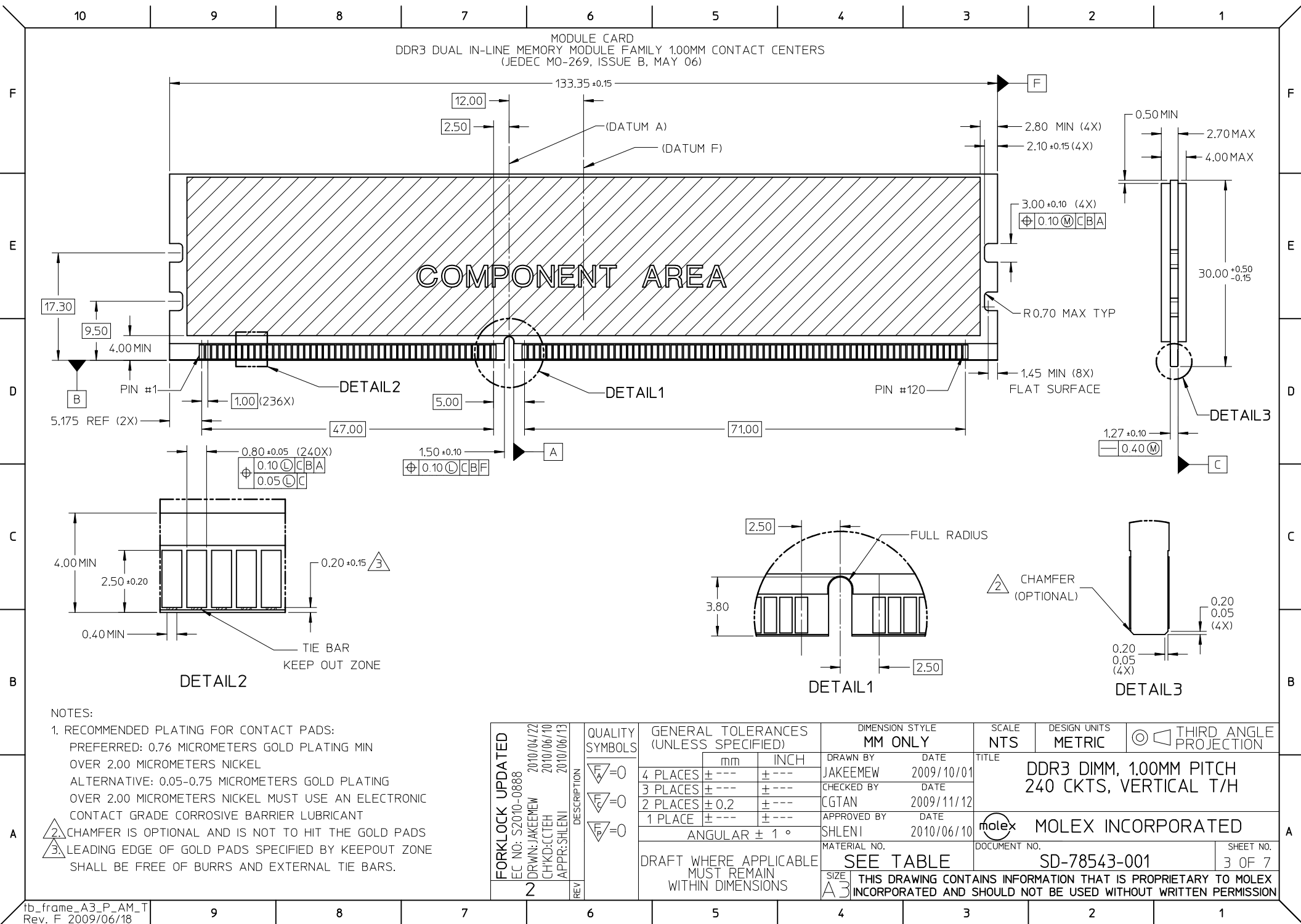
- NOTES :
1. MATERIAL : HOUSING - HIGH TEMP. NYLON, GLASS FILLED, UL 94V-0
COLOUR : SEE SHEET 6
LATCH - HIGH TEMP NYLON, GLASS FILLED, UL 94V-0
COLOUR : SEE SHEET 6
TERMINAL : COPPER ALLOY.
 2. TERMINAL PLATING OPTIONS: SEE TABLE ON SHEETS 6.
 3. PRODUCT SPECIFICATION: SEE TABLE ON SHEETS 6.
 4. PACKAGING INFORMATION: PRODUCT SHALL BE PACKED IN TRAY
 5. CARD SLOT ACCEPTS 1.27±0.10MM MODULE THICKNESS (MEASURED FROM P.C. PADS).
 6. MOLEX LOGO, DATE & PART NO. INDICATED ON HOUSING.
 7. MODULE SEATING PLANE FROM TOP OF PCB.
 8. KEEP OUT ZONE RESERVED FOR LATCH.
 9. HIGH TEMPERATURE REFLOW UP TO 260°C CAPABLE.
 10. HALOGEN FREE FOR ALL PLASTIC MATERIAL.

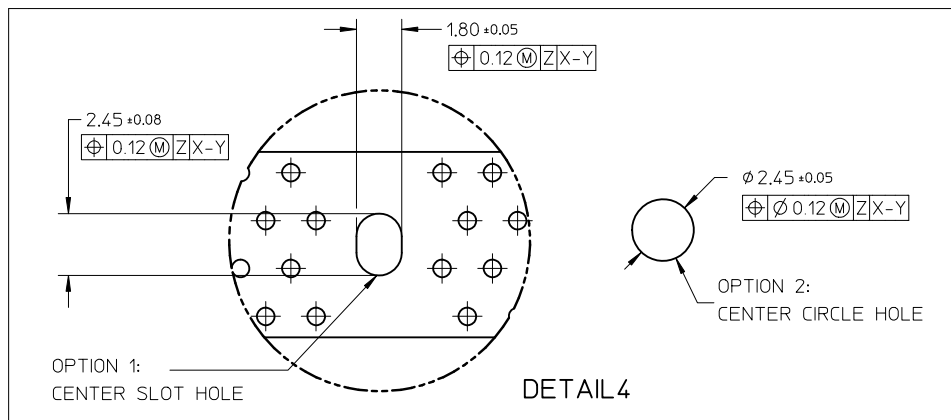
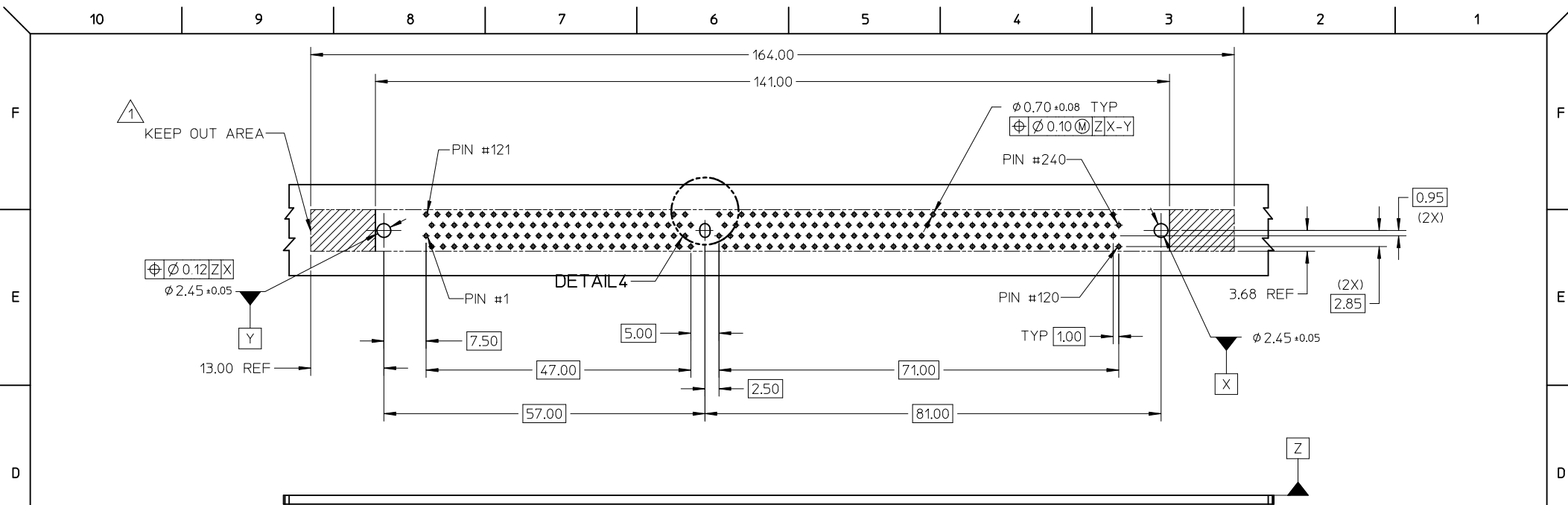
THIS DESIGN IS BASED ON DESIGN OBJECTIVES AND IS STRICTLY TENTATIVE. IT MAY CHANGE BASED ON RESULTS OF ADDITIONAL DESIGN REVIEWS AND VERIFICATIONS.

FORKLOCK UPDATED EC NO: S2010-0888 DRWN: JAKEEMEW CHKD: CCTEH APPR: SHLENI 2	2010/04/22 2010/06/10 2010/06/13	DESCRIPTION REV	QUALITY SYMBOLS 	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
					mm	INCH	DRAWN BY JAKEEMEW	DATE 2009/10/01	TITLE DDR3 DIMM, 1.00MM PITCH 240 CKTS, VERTICAL T/H				
				4 PLACES	± ---	± ---	CHECKED BY	DATE					
				3 PLACES	± ---	± ---	CGTAN	2009/11/12	MOLEX INCORPORATED				
				2 PLACES	± 0.2	± ---	APPROVED BY	DATE					
				1 PLACE	± ---	± ---	SHLENI	2010/06/10	SD-78543-001				
ANGULAR ± 1 °			MATERIAL NO.		DOCUMENT NO.		SHEET NO.						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		1 OF 7								
			SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								



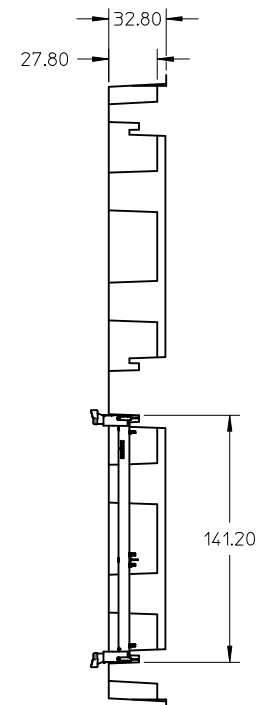
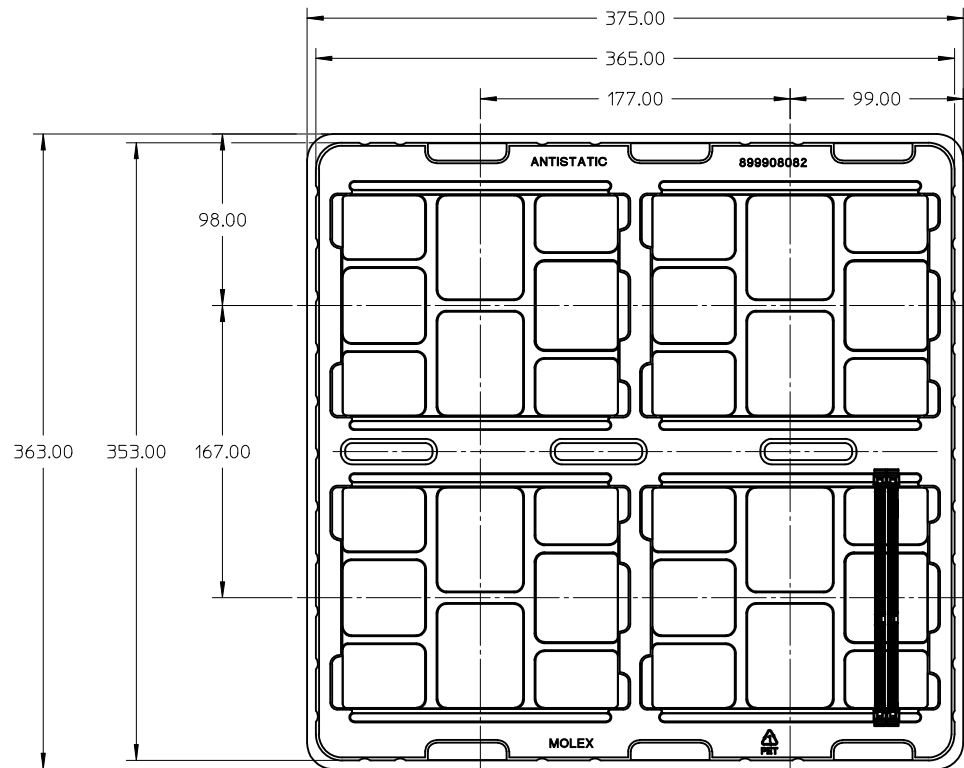
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NOTE:
 1. KEEP OUT AREA IS THE AREA WHERE THE CONNECTOR
 (INCLUDING LATCH) IS MOUNTED ON THE PCB.

FORKLOCK UPDATED EC NO: S2010-0888 DRWN: JAKEEMW 2010/04/22 CHKD: CTEH 2010/06/10 APPR: SHLENI 2010/06/13	DESCRIPTION	QUALITY SYMBOLS 	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
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			1 PLACE	± ---	± ---	SEE TABLE		SD-78543-001		4 OF 7		
ANGULAR ± 1 °		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								



NOTES:
1. QTY OF CAVITY: 20 X 4 = 80 PCS

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F	<table><tr><th>ASSEMBLY PART NO.</th><th>VOLTAGE KEY</th><th>HOUSING COLOR</th><th>LATCH COLOR</th><th>DIM 'P'</th><th>RECOMMENDED PCB THICKNESS</th><th>PLATING OPTION</th><th>PRODUCT SPECIFICATION</th></tr><tr><td>78543-0001</td><td rowspan="24">CENTRE (1.5V)</td><td rowspan="24">BLACK</td><td rowspan="9">BLACK</td><td>2.67</td><td>1.57</td><td>0.38 MICROMETER/ 15 MICROINCH MIN. GOLD ON CONTACT</td><td rowspan="3">PS-78543-001</td></tr><tr><td>78543-0003</td><td>3.00</td><td>2.18</td><td>2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN ON SOLDERTAILS</td></tr><tr><td>78543-0002</td><td>3.18</td><td>2.36</td><td>1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE</td></tr><tr><td>78543-0011</td><td>2.67</td><td>1.57</td><td>0.76 MICROMETER/ 30 MICROINCH MIN. GOLD ON CONTACT</td><td rowspan="3">PS-78543-002</td></tr><tr><td>78543-0013</td><td>3.00</td><td>2.18</td><td>2.54 MICROMETER/ 100 MICROINCH MIN. 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ASSEMBLY PART NO.	VOLTAGE KEY	HOUSING COLOR	LATCH COLOR	DIM 'P'	RECOMMENDED PCB THICKNESS	PLATING OPTION	PRODUCT SPECIFICATION
78543-0151	CENTRE (1.5V)	NATURAL (OFFWHITE)	NATURAL (OFFWHITE)	2.67	1.57	0.38 MICROMETER/ 15 MICROINCH MIN. GOLD ON CONTACT	PS-78543-001
78543-0153				3.00	2.18	2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN ON SOLDERTAILS	
78543-0152				3.18	2.36	1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE	
78543-0161				2.67	1.57	0.76 MICROMETER/ 30 MICROINCH MIN. GOLD ON CONTACT	PS-78543-002
78543-0163				3.00	2.18	2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN ON SOLDERTAILS	
78543-0162				3.18	2.36	1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE	
78543-0171				2.67	1.57	0.076 MICROMETER/ 3 MICROINCH MIN. GOLD ON CONTACT	PS-78543-003
78543-0173				3.00	2.18	2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN ON SOLDERTAILS	
78543-0172				3.18	2.36	1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE	
78543-0181				2.67	1.57	0.51 MICROMETER/ 20 MICROINCH MIN. GOLD ON CONTACT	PS-78543-001
78543-0183				3.00	2.18	2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN ON SOLDERTAILS	
78543-0182				3.18	2.36	1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE	

FORKLOCK UPDATED EC NO: S2010-0888 DRWN: JAKEEMW CHKD: CTEH APPR: SHLENI	2010/04/22	2010/06/10	2010/06/13	DESCRIPTION REV	QUALITY SYMBOLS =0 =0 =0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table><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>± 0.2</td><td>± ---</td></tr><tr><td>1 PLACE</td><td>± ---</td><td>± ---</td></tr></table> ANGULAR ± 1 °		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.2	± ---	1 PLACE	± ---	± ---	DIMENSION STYLE MM ONLY <table><tr><td>DRAWN BY</td><td>DATE</td></tr><tr><td>JAKEEMW</td><td>2009/10/01</td></tr><tr><td>CHECKED BY</td><td>DATE</td></tr><tr><td>CGTAN</td><td>2009/11/12</td></tr><tr><td>APPROVED BY</td><td>DATE</td></tr><tr><td>SHLENI</td><td>2010/06/10</td></tr></table> MATERIAL NO. SEE TABLE	DRAWN BY	DATE	JAKEEMW	2009/10/01	CHECKED BY	DATE	CGTAN	2009/11/12	APPROVED BY	DATE	SHLENI	2010/06/10	SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
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