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Part Number: [0783210001](#)
Status: **Active**
Description: 1.00mm (.039") Pitch DDR3 DIMM Socket, LLCR, Vertical, Through Hole, with Beveled Metal Pins, Black Housing and Latches, 0.38µm (15µ") Gold (Au) Plating, 2.67mm (.105") Solder Tail Length, 1.57mm (.062") PCB Thickness, 240 Circuits, Lead free

Documents:

[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Product Specification PS-78321-002 \(PDF\)](#)

Agency Certification

CSA LR19980
 UL E29179

General

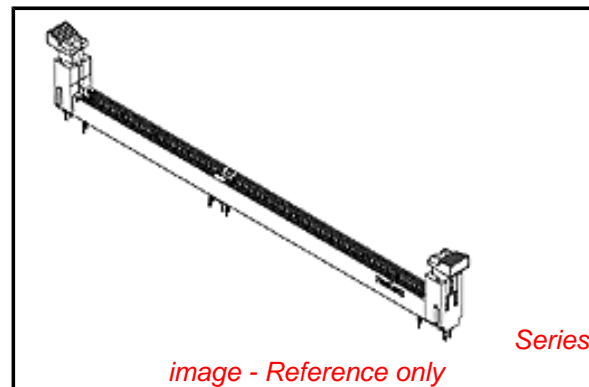
Product Family Memory Module Sockets
 Series [78321](#)
 Component Type Socket
 JEDEC Outline MO-269
 Product Name DDR3 DIMM

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 High Temperature Thermoplastic
 PC Tail Length (in) 0.105 In
 PC Tail Length (mm) 2.67 mm
 PCB Locator Yes
 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



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

[78321Series](#)

Mates With

JEDEC standard 1.27mm modules

Material Info

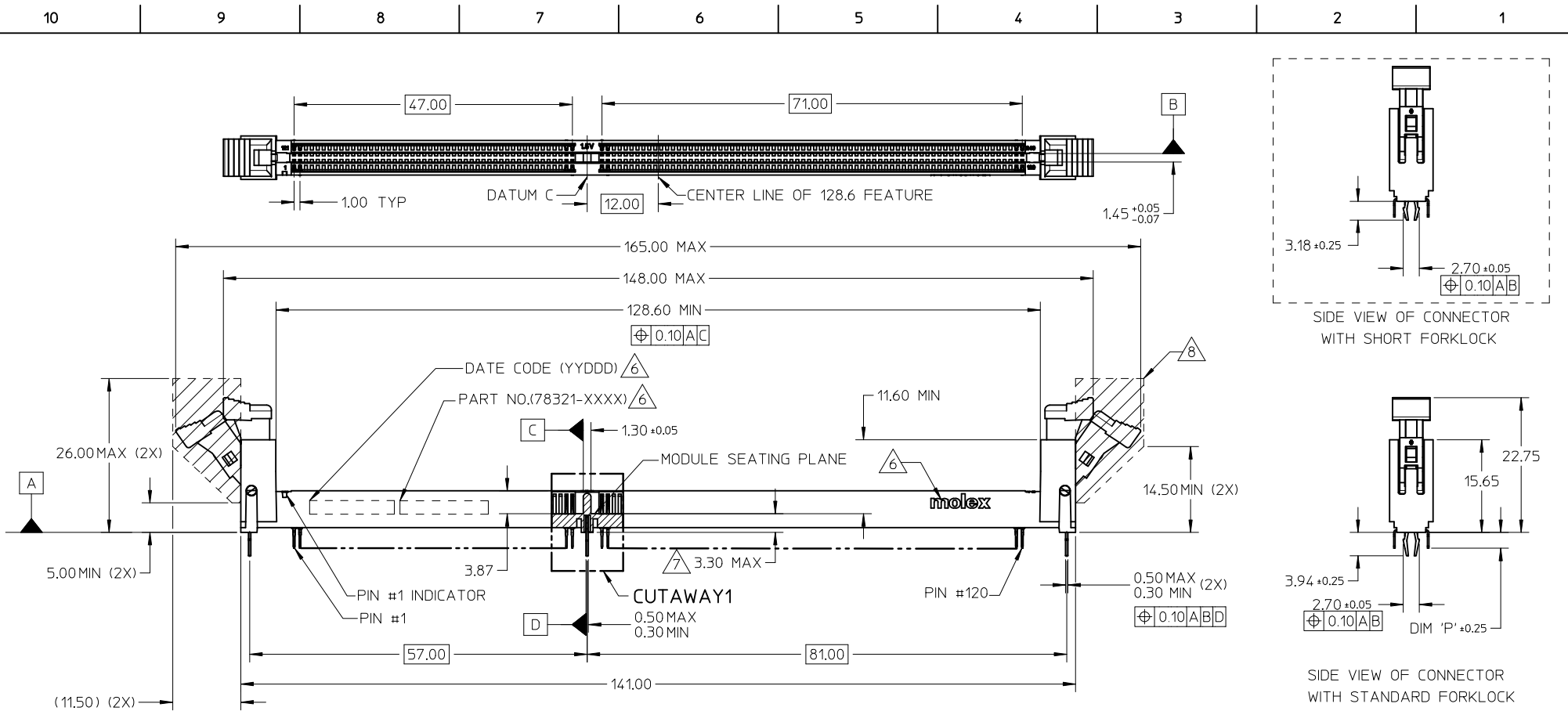
Reference - Drawing Numbers

Packaging Specification
Product Specification
Sales Drawing

PK-78321-001
PS-78321-002
SD-78321-001

This document was generated on 06/08/2010

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NOTES:

- MATERIAL: HOUSING - HIGH TEMP NYLON, GLASS FILLED, UL 94V-0
 COLOR: SEE TABLE ON SHEET 6 & 7
 LATCH - HIGH TEMP NYLON, GLASS FILLED, UL 94V-0
 COLOR: SEE TABLE ON SHEET 6 & 7
 TERMINAL: COPPER ALLOY

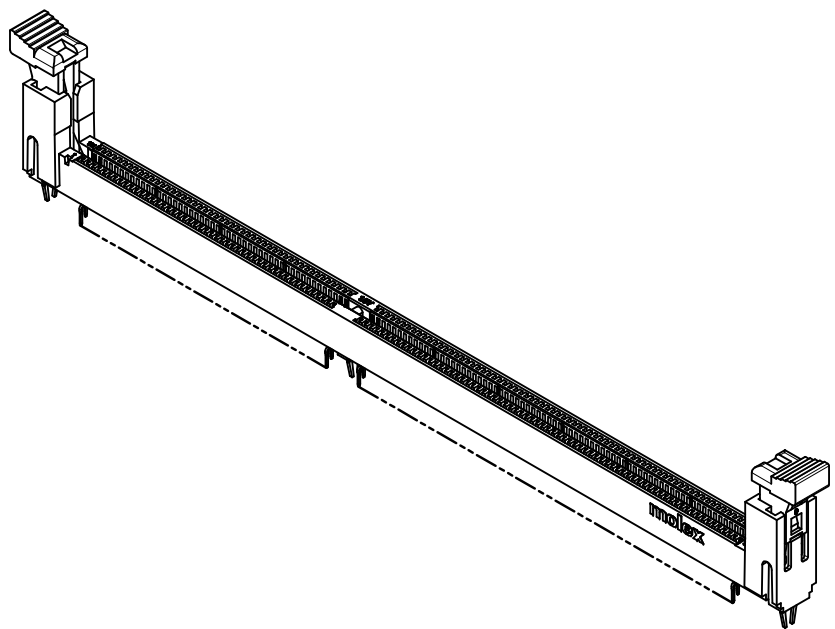
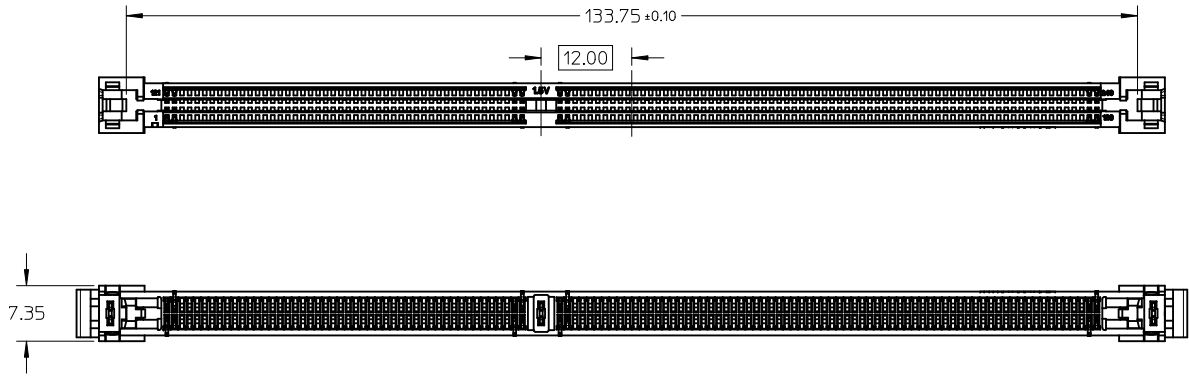
- FINISHES:
 TERMINAL PLATING OPTIONS - SEE TABLE ON SHEET 6 & 7
- PRODUCT SPECIFICATION: SEE TABLE ON SHEET 6 & 7
- PACKAGING INFORMATION: PRODUCT SHALL BE PACKED IN TRAY
- CARD SLOTS ACCEPTS 1.27±0.10MM MODULE THICKNESS (MEASURED FROM PC PADS)

- 6. MOLEX LOGO, DATE CODE AND PART NO. INDICATED ON HOUSING
- 7. MODULE SEATING PLANE FROM TOP OF PCB
- 8. KEEP OUT ZONE RESERVED FOR LATCH

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

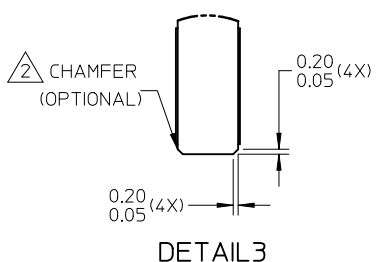
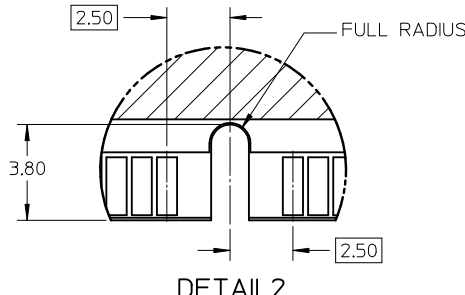
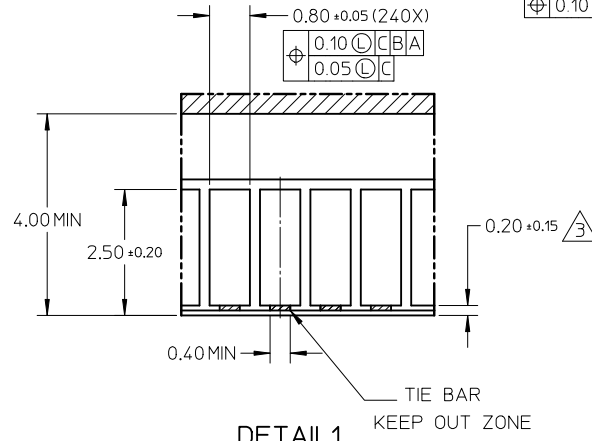
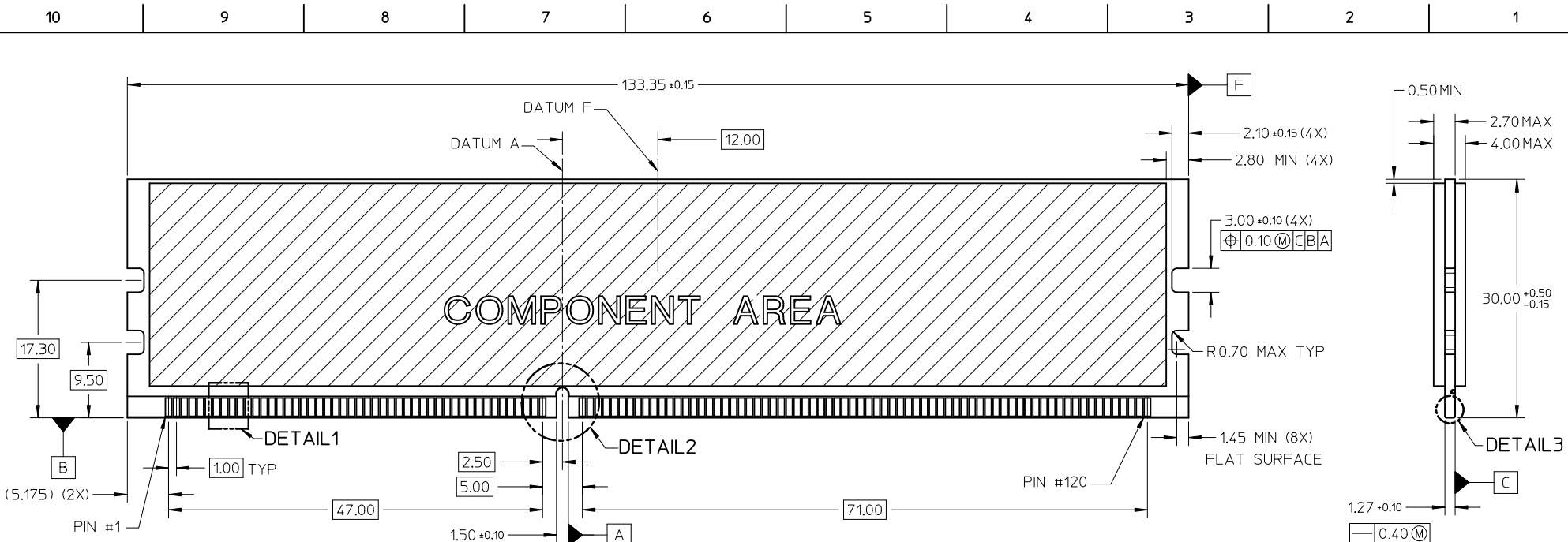
FORKLOCK UPDATED EC NO: S2010-0888 DRWN: JAKEEVIEW 2010/04/23 CHKD: CCTEH 2010/06/10 APPR: SHLENI 2010/06/13	QUALITY SYMBOLS $\nabla_A=0$ $\nabla_C=0$ $\nabla_P=0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
			mm	INCH	DRAWN BY YTYANG01	DATE 2007/09/24	TITLE DDR3 DIMM, 100MM PITCH 240 CKTS, VERTICAL, T/H LOW LLLCR				
			4 PLACES	± ---	± ---	CHECKED BY CCTEH	DATE 2007/11/12	MOLEX INCORPORATED DOCUMENT NO. SD-78321-001 SHEET NO. 1 OF 7			
			3 PLACES	± ---	± ---	APPROVED BY SHLENI	DATE 2010/06/10				
	2 PLACES	± 0.2	± ---	MATERIAL NO.		SEE TABLE					
	1 PLACE	± ---	± ---	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					

10 9 8 7 6 5 4 3 2 1



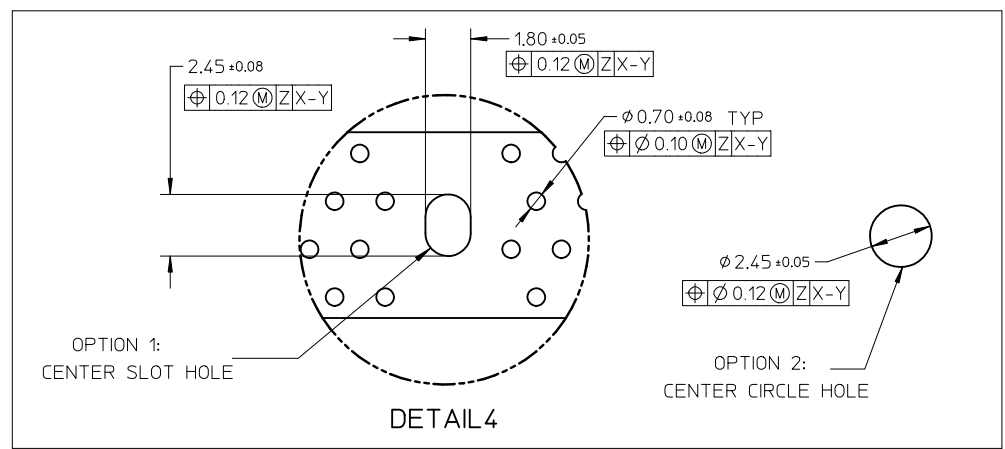
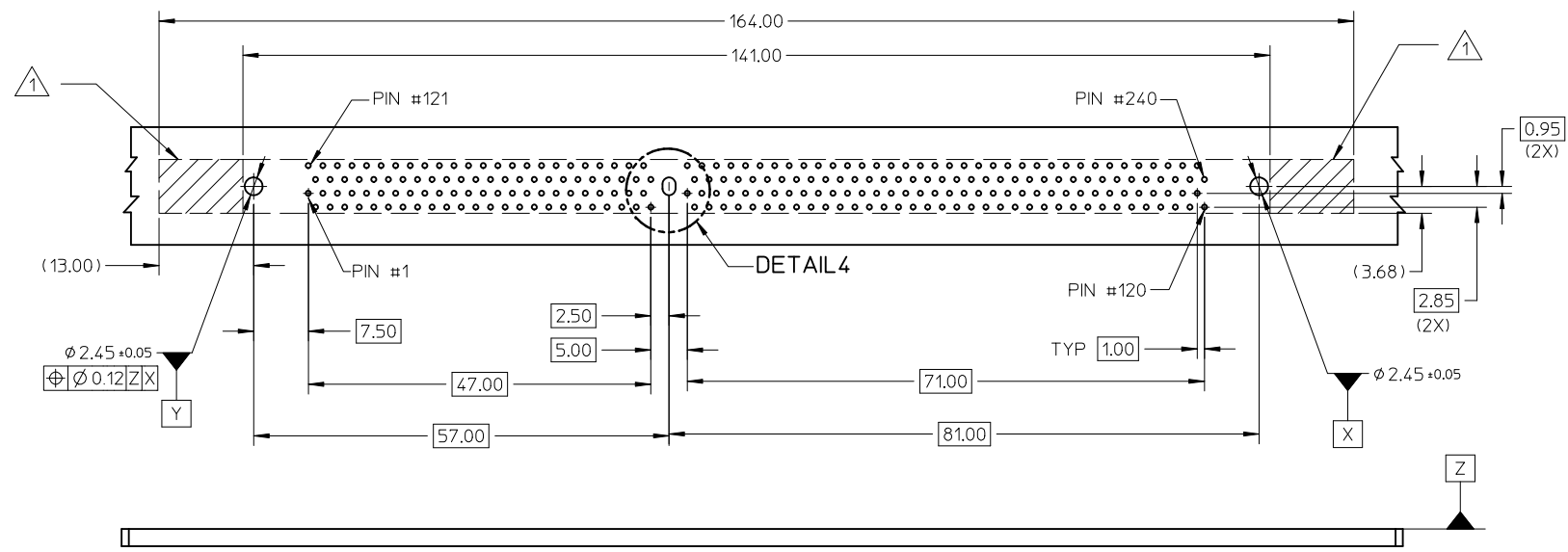
FORKLOCK UPDATED EC NO: S2010-0888 DRWN: JAKEEVEW 2010/04/23 CHKD: CCTEH 2010/06/10 APPR: SHLENI 2010/06/13	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	$\nabla_A = 0$ $\nabla_C = 0$ $\nabla_P = 0$	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.2 ± --- 1 PLACE ± --- ± --- ANGULAR ± 1 °	MM ONLY	NTS	METRIC	☉ □ THIRD ANGLE PROJECTION
	REV	DESCRIPTION	DRAWN BY	DATE	TITLE	
	10		YTYANG01	2007/09/24	DDR3 DIMM, 1.00MM PITCH 240 CKTS, VERTICAL, T/H LOW LLCR	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	CHECKED BY	DATE	MOLEX INCORPORATED	
			CCTEH	2007/11/12	DOCUMENT NO.	
			APPROVED BY	DATE	SHEET NO.	
			SHLENI	2010/06/10	2 OF 7	
			MATERIAL NO.	SD-78321-001		
			SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
			A3			

9 8 7 6 5 4 3 2 1



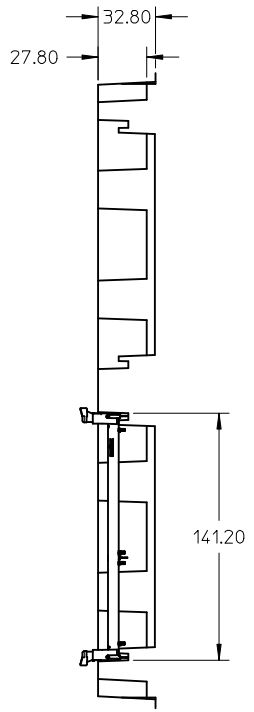
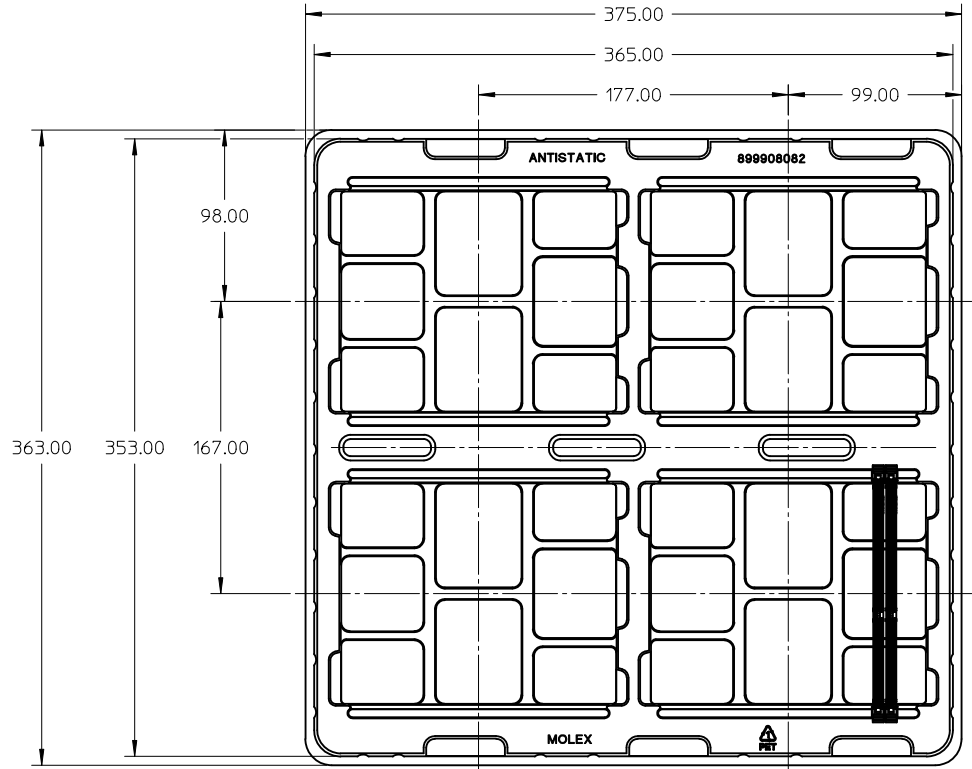
NOTES:
 1. RECOMMENDED PLATING FOR CONTACT PADS:
 PREFERRED: 0.76 MICROMETERS GOLD PLATING MIN OVER 2.00 MICROMETERS NICKEL
 ALTERNATIVE: 0.05-0.75 MICROMETERS GOLD PLATING OVER 2.00 MICROMETERS NICKEL MUST USE AN ELECTRONIC CONTACT GRADE CORROSIVE BARRIER LUBRICANT
 2. CHAMFER IS OPTIONAL AND IS NOT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

FORKLOCK UPDATED EC NO: S2010-0888 DRWN: JAKEEWEW 2010/04/23 CHYKD: CCTEH 2010/06/10 APPR: SHLENI 2010/06/13	QUALITY SYMBOLS $F_A=0$ $F_C=0$ $F_B=0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
			mm	INCH	DRAWN BY YTYANG01	DATE 2007/09/24	TITLE DDR3 DIMM, 100MM PITCH 240 CKTS, VERTICAL, T/H LOW LLLCR			
		4 PLACES	± ---	± ---	CHECKED BY CCTEH	DATE 2007/11/12	MOLEX INCORPORATED DOCUMENT NO. SD-78321-001 SHEET NO. 3 OF 7			
		3 PLACES	± ---	± ---	APPROVED BY SHLENI	DATE 2010/06/10				
2 PLACES	± 0.2	± ---	MATERIAL NO.		SEE TABLE					
1 PLACE	± ---	± ---	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					
10	REV									



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

FORKLOCK UPDATED EC NO: S2010-0888 DRWN: JAKEEWEW 2010/04/23 CHKD: CCTEH 2010/06/10 APPR: SHLENI 2010/06/13	QUALITY SYMBOLS $F_A=0$ $F_C=0$ $F_P=0$	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES \pm --- \pm --- 3 PLACES \pm --- \pm --- 2 PLACES ± 0.2 \pm --- 1 PLACE \pm --- \pm --- ANGULAR $\pm 1^\circ$	DIMENSION STYLE MM ONLY DRAWN BY YTYANG01 DATE 2007/09/24 CHECKED BY CCTEH DATE 2007/11/12 APPROVED BY SHLENI DATE 2010/06/10	SCALE NTS DESIGN UNITS METRIC THIRD ANGLE PROJECTION	TITLE DDR3 DIMM, 100MM PITCH 240 CKTS, VERTICAL, T/H LOW LLLCR
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. SEE TABLE SIZE A3	MOLEX INCORPORATED DOCUMENT NO. SD-78321-001	SHEET NO. 4 OF 7	
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
	10	REV			



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

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			mm	INCH	DRAWN BY YTYANG01	DATE 2007/09/24	TITLE DDR3 DIMM, 1.00MM PITCH 240 CKTS, VERTICAL, T/H LOW LCCR			
		4 PLACES	± ---	± ---	CHECKED BY CCTEH	DATE 2007/11/12	MOLEX INCORPORATED DOCUMENT NO. SD-78321-001			
		3 PLACES	± ---	± ---	APPROVED BY SHLENI	DATE 2010/06/10				
2 PLACES	± 0.2	± ---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
1 PLACE	± ---	± ---								
		ANGULAR ± 1 °								

ASSEMBLY PART NO.	VOLTAGE KEY	DIM 'P'	FORKLOCK LENGTH	RECOMMENDED PCB THICKNESS	PLATING OPTION	HOUSING COLOUR	LATCH COLOUR	PRODUCT SPECIFICATION
78321-0011	CENTRE (1.5V)	2.67	3.94	1.57	0.76 MICROMETER/ 30 MICROINCH MIN. GOLD ON CONTACT 2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN (MATTE) ON SOLDER TAILS 1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE	BLACK	BLACK	PS-78321-001
78321-0016							NATURAL (OFF-WHITE)	
78321-0013							BLACK	
78321-0017		NATURAL (OFF-WHITE)						
78321-0012		BLACK						
78321-0018		NATURAL (OFF-WHITE)						
78321-0001		2.67		1.57	0.38 MICROMETER/ 15 MICROINCH MIN. GOLD ON CONTACT 2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN (MATTE) ON SOLDER TAILS 1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE		BLACK	PS-78321-002
78321-0006							NATURAL (OFF-WHITE)	
78321-0003							BLACK	
78321-0007		NATURAL (OFF-WHITE)						
78321-0002		BLACK						
78321-0008		NATURAL (OFF-WHITE)						

FORKLOCK UPDATED EC NO: S2010-0888 DRWN: JAKEEW 2010/04/23 CHKD: CCTEH 2010/06/10 APPR: SHLENI 2010/06/13	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION															
	$\nabla_A = 0$ $\nabla_C = 0$ $\nabla_P = 0$	<table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </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>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.2	± ---	1 PLACE	± ---	± ---	MM ONLY	NTS	METRIC	
		mm	INCH																		
	4 PLACES	± ---	± ---																		
3 PLACES	± ---	± ---																			
2 PLACES	± 0.2	± ---																			
1 PLACE	± ---	± ---																			
DESCRIPTION	DRAWN BY: YTYANG01 CHECKED BY: CCTEH APPROVED BY: SHLENI DATE: 2007/09/24 DATE: 2007/11/12 DATE: 2010/06/10	TITLE	DDR3 DIMM, 1.00MM PITCH 240 CKTS, VERTICAL, T/H LOW LLCR																		
REV	10	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE TABLE	MOLEX INCORPORATED																	
			SIZE: A3	DOCUMENT NO. SD-78321-001		SHEET NO. 6 OF 7															
			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																		

ASSEMBLY PART NO.	VOLTAGE KEY	DIM 'P'	FORKLOCK LENGTH	RECOMMENDED PCB THICKNESS	PLATING OPTION	HOUSING COLOUR	LATCH COLOUR	PRODUCT SPECIFICATION			
78321-0051	CENTRE (1.5V)	3.18	3.18	2.36	0.76 MICROMETER/ 30 MICROINCH MIN. GOLD ON CONTACT 2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN (MATTE) ON SOLDER TAILS 1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE	BLACK	NATURAL (OFF-WHITE)	PS-78321-001			
78321-0052						NATURAL (OFF-WHITE)					
78321-0053						BLUE					
78321-0055						GREEN					
78321-0151						BLACK					
78321-0152						NATURAL (OFF-WHITE)					
78321-0153		BLUE									
78321-0155		GREEN									
78321-0061		2.67	3.18	3.18		0.38 MICROMETER/ 15 MICROINCH MIN. GOLD ON CONTACT 2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN (MATTE) ON SOLDER TAILS 1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE			BLACK	NATURAL (OFF-WHITE)	PS-78321-002
78321-0062									NATURAL (OFF-WHITE)		
78321-0063									BLUE		
78321-0065									GREEN		
78321-0161					BLACK						
78321-0162					NATURAL (OFF-WHITE)						
78321-0163		BLUE									
78321-0165		GREEN									
78321-0261		3.18	3.18	3.18	0.38 MICROMETER/ 15 MICROINCH MIN. GOLD ON CONTACT 2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN (MATTE) ON SOLDER TAILS 1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE		BLACK	BLACK			
78321-0262							NATURAL (OFF-WHITE)				
78321-0263							BLUE				
78321-0265							GREEN				
78321-0361						BLACK					
78321-0362						NATURAL (OFF-WHITE)					
78321-0363		BLUE									
78321-0365		2.67					GREEN				

FORKLOCK UPDATED EC NO: S2010-0888 DRWN: JAKEEW 2010/04/23 CHKD: CCTEH 2010/06/10 APPR: SHLENI 2010/06/13	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
	$F_A=0$ $F_C=0$ $F_P=0$	mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.2 ± --- 1 PLACE ± --- ± --- ANGULAR ± 1 °	MM ONLY	NTS	METRIC		
	DESCRIPTION	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWN BY	DATE	TITLE		
	REV		YTYANG01	2007/09/24	DDR3 DIMM, 1.00MM PITCH 240 CKTS, VERTICAL, T/H LOW LLCR		
10		CCTEH	2007/11/12	MOLEX INCORPORATED			
		SHLENI	2010/06/10	SD-78321-001			
				SHEET NO. 7 OF 7			
				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			



Стандарт Электрон Связь

Мы молодая и активно развивающаяся компания в области поставок электронных компонентов. Мы поставляем электронные компоненты отечественного и импортного производства напрямую от производителей и с крупнейших складов мира.

Благодаря сотрудничеству с мировыми поставщиками мы осуществляем комплексные и плановые поставки широчайшего спектра электронных компонентов.

Собственная эффективная логистика и склад в обеспечивает надежную поставку продукции в точно указанные сроки по всей России.

Мы осуществляем техническую поддержку нашим клиентам и предпродажную проверку качества продукции. На все поставляемые продукты мы предоставляем гарантию .

Осуществляем поставки продукции под контролем ВП МО РФ на предприятия военно-промышленного комплекса России , а также работаем в рамках 275 ФЗ с открытием отдельных счетов в уполномоченном банке. Система менеджмента качества компании соответствует требованиям ГОСТ ISO 9001.

Минимальные сроки поставки, гибкие цены, неограниченный ассортимент и индивидуальный подход к клиентам являются основой для выстраивания долгосрочного и эффективного сотрудничества с предприятиями радиоэлектронной промышленности, предприятиями ВПК и научно-исследовательскими институтами России.

С нами вы становитесь еще успешнее!

Наши контакты:

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Электронная почта: sales@st-electron.ru

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Промышленная ул, дом № 19, литера Н,
помещение 100-Н Офис 331