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Part Number: [0780790002](#)
Status: **Active**
Description: 1.00mm (.039") Pitch DDR3 DIMM Socket, Vertical, Through Hole, with Beveled Metal Pins, Black Housing and Latches, 0.38µm (15µ") Gold (Au) Plating, 3.18mm(.125") Solder tail, 240 Circuits, Lead free

Documents:
[3D Model](#) [Product Specification PS-78079-001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980
UL E29179

General

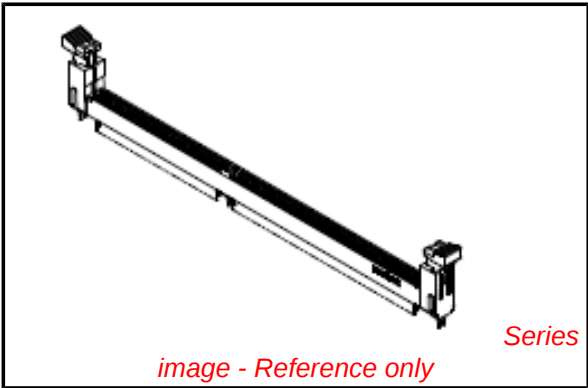
Product Family Memory Module Sockets
Series [78079](#)
Component Type Socket
JEDEC Outline MO-269
Product Name DDR3 DIMM

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) 0.125 In
PC Tail Length (mm) 3.18 mm
PCB Locator Yes
PCB Retention Yes
PCB Thickness Recommended (in) 0.093 In
PCB Thickness Recommended (mm) 2.36 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
Contains SVHC: No
Halogen-Free
Status
Not Reviewed



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
[78079Series](#)

Mates With
JEDEC standard 1.27mm modules

Solder Process Data

Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	SMC & Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	2
Process Temperature max. C	260

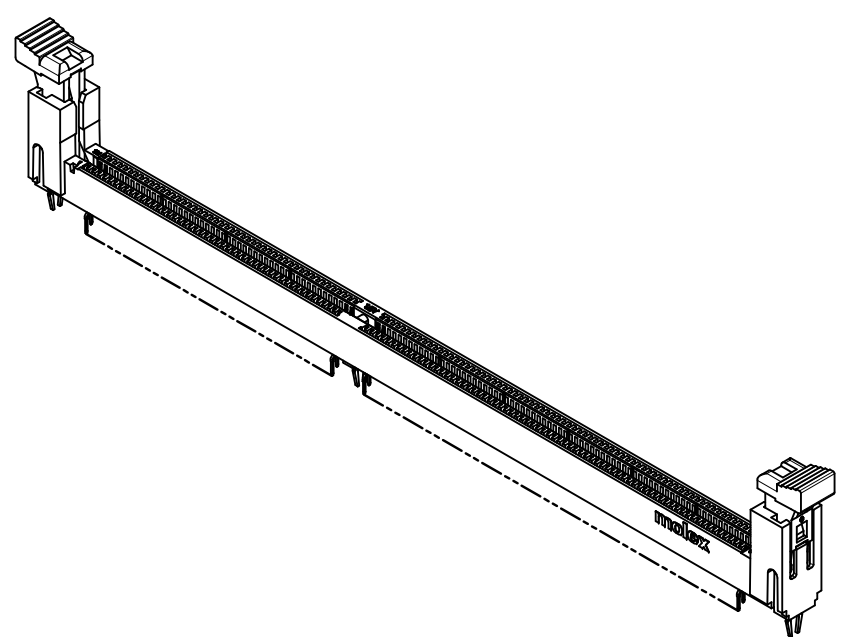
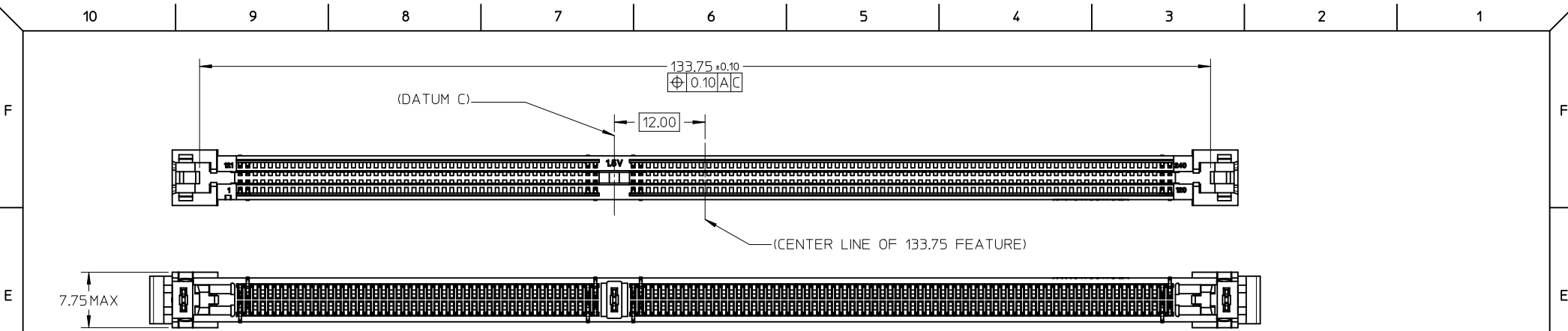
Material Info

Reference - Drawing Numbers

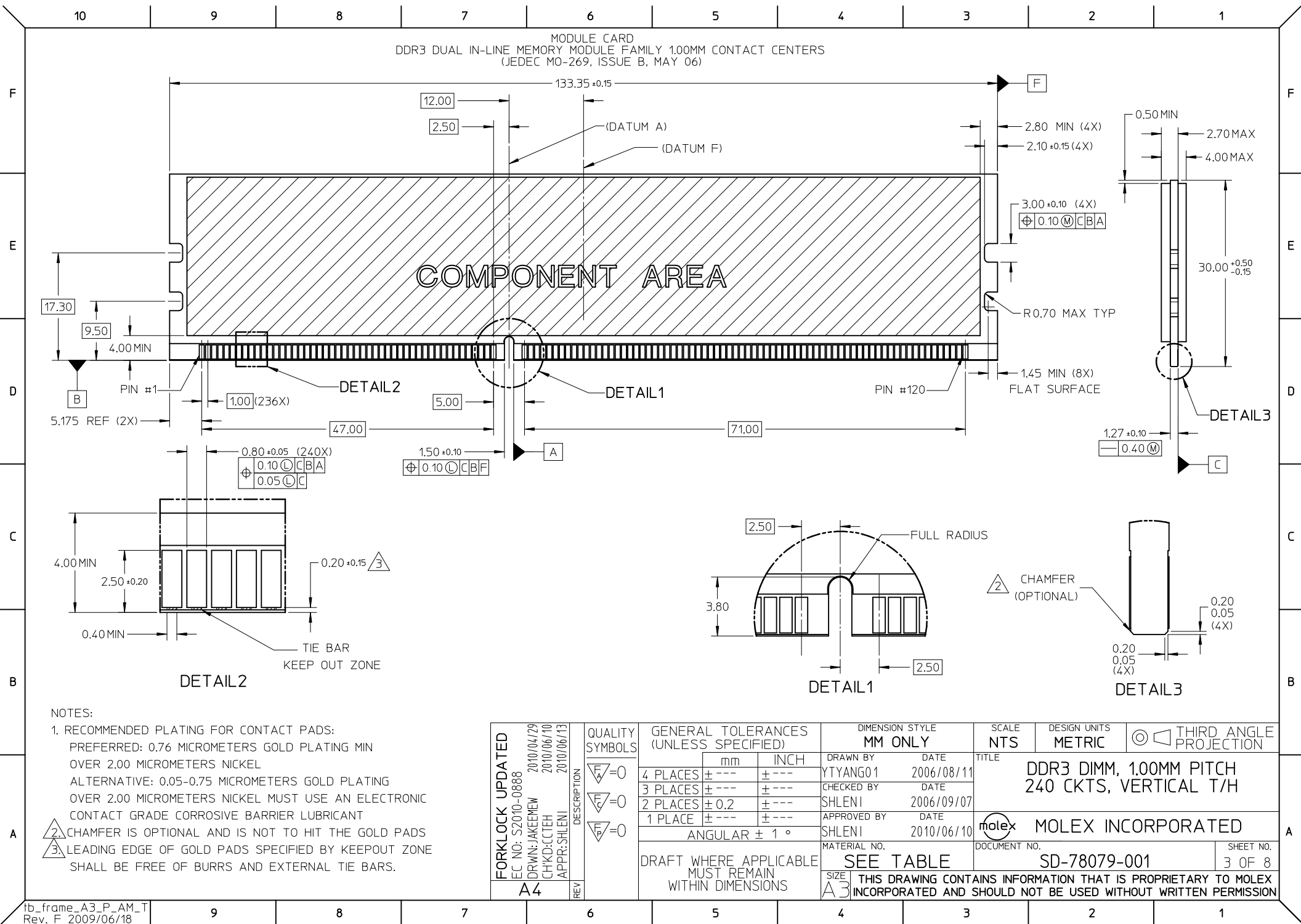
Product Specification	PS-78079-001
Sales Drawing	SD-78079-001

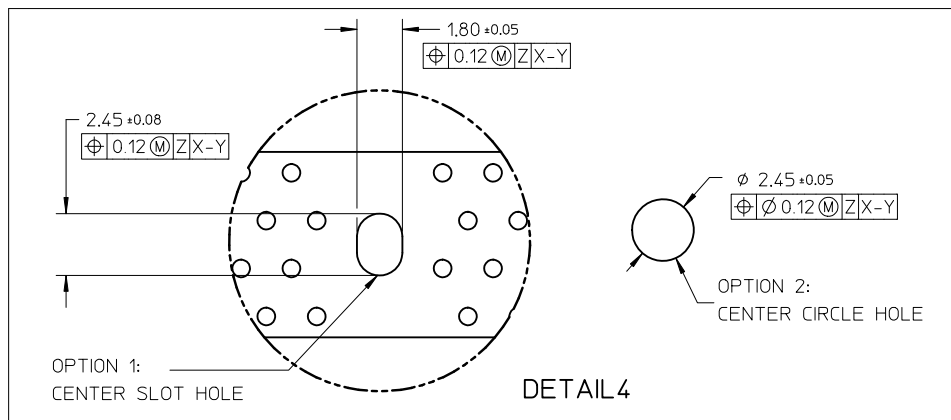
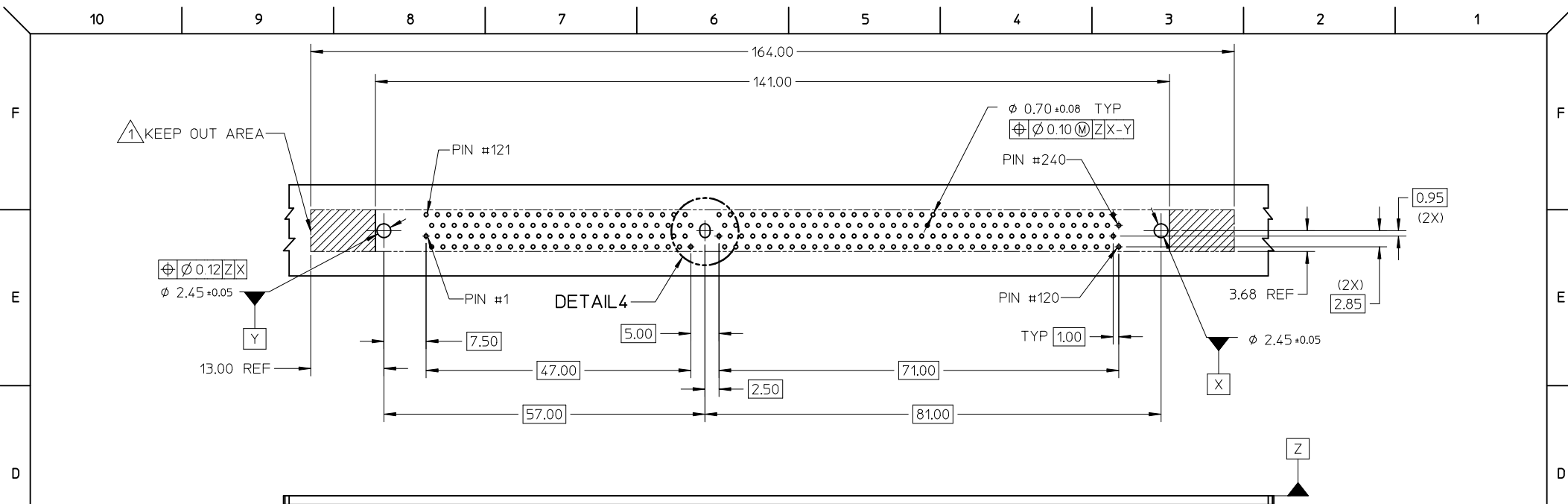
This document was generated on 04/20/2010

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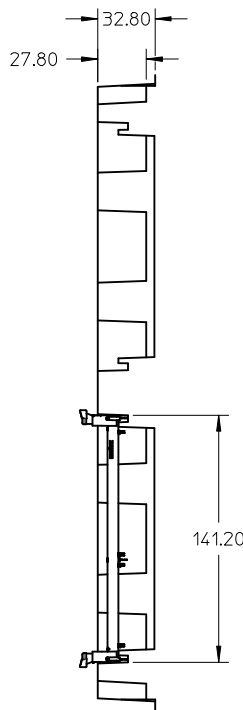
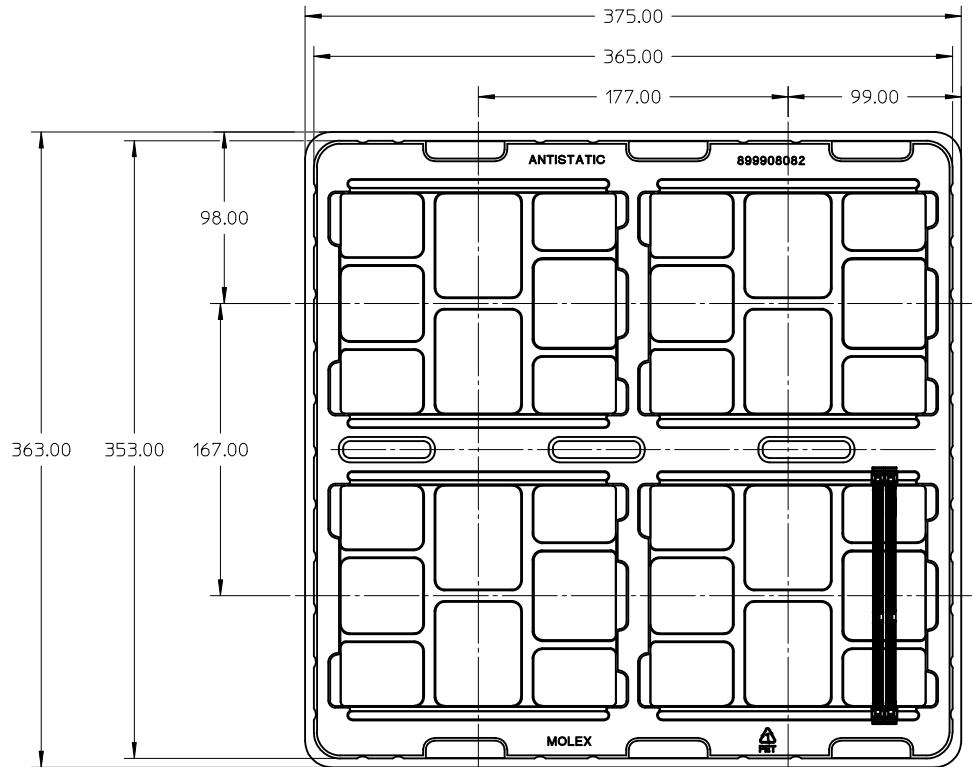
FORKLOCK UPDATED EC NO: S2010-0888 DRWN: JAKEW CHKD: CTEH APPR: SHLENI		DESCRIPTION REV	QUALITY SYMBOLS 	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
					mm	INCH	DRAWN BY YTYANG01	DATE 2006/08/11	TITLE DDR3 DIMM, 1.00MM PITCH 240 CKTS, VERTICAL T/H				
				4 PLACES	± ---	± ---	CHECKED BY	DATE					
				3 PLACES	± ---	± ---	SHLENI	2006/09/07	MOLEX INCORPORATED				
				2 PLACES	± 0.2	± ---	APPROVED BY	DATE					
				1 PLACE	± ---	± ---	SHLENI	2010/06/10	DOCUMENT NO. SD-78079-001				
				ANGULAR ± 1 °		MATERIAL NO.		SHEET NO. 2 OF 8					
				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





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: JAKEEWE CHKD: CTEH APPR: SHLENI REV A4	DESCRIPTION 2010/04/29 2010/06/10 2010/06/13	QUALITY SYMBOLS 	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
				mm	INCH	DRAWN BY YTYANG01	DATE 2006/08/11	TITLE DDR3 DIMM, 1.00MM PITCH 240 CKTS, VERTICAL T/H					
			4 PLACES	± ---	± ---	CHECKED BY SHLENI	DATE 2006/09/07						
			3 PLACES	± ---	± ---	APPROVED BY SHLENI	DATE 2010/06/10						
			2 PLACES	± 0.2	± ---	MATERIAL NO. SEE TABLE			DOCUMENT NO. SD-78079-001			SHEET NO. 4 OF 8	
			1 PLACE	± ---	± ---								
			ANGULAR ± 1 °			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MOLEX INCORPORATED				
			SIZE A3			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

FORKLOCK UPDATED EC NO: S2010-0888 DRWN: JAKEEWEW 2010/04/29 CHKD: CTEH 2010/06/10 APPR: SHLENI 2010/06/13	DESCRIPTION	QUALITY SYMBOLS F=0 F=0 F=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
				mm	INCH	DRAWN BY YTYANG01	DATE 2006/08/11	TITLE DDR3 DIMM, 1.00MM PITCH 240 CKTS, VERTICAL T/H					
			4 PLACES	± ---	± ---	CHECKED BY	DATE						
			3 PLACES	± ---	± ---	SHLENI	2006/09/07	MOLEX INCORPORATED					
			2 PLACES	± 0.2	± ---	APPROVED BY	DATE						
			1 PLACE	± ---	± ---	SHLENI	2010/06/10	SD-78079-001					
			ANGULAR ± 1 °			MATERIAL NO.	DOCUMENT NO.						SHEET NO.
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-78079-001		5 OF 8			
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	10	9	8	7	6	5	4	3	2	1																																																																																												
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>78079-0001</td><td rowspan="18">CENTRE (1.5V)</td><td rowspan="18">BLACK</td><td rowspan="6">BLACK</td><td>2.67</td><td>1.57</td><td rowspan="3">0.38 MICROMETER/ 15 MICROINCH MIN. GOLD ON CONTACT 2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN ON SOLDERTAILS 1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE</td><td rowspan="3">PS-78079-001</td></tr><tr><td>78079-0003</td><td>3.00</td><td>2.18</td></tr><tr><td>78079-0002</td><td>3.18</td><td>2.36</td></tr><tr><td>78079-0011</td><td>2.67</td><td>1.57</td><td rowspan="3">0.76 MICROMETER/ 30 MICROINCH MIN. GOLD ON CONTACT 2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN ON SOLDERTAILS 1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE</td><td rowspan="3">PS-78079-002</td></tr><tr><td>78079-0013</td><td>3.00</td><td>2.18</td></tr><tr><td>78079-0012</td><td>3.18</td><td>2.36</td></tr><tr><td>78079-0021</td><td>2.67</td><td>1.57</td><td rowspan="3">0.076 MICROMETER/ 3 MICROINCH MIN. GOLD ON CONTACT 2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN ON SOLDERTAILS 1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE</td><td rowspan="3">PS-78079-003</td></tr><tr><td>78079-0023</td><td>3.00</td><td>2.18</td></tr><tr><td>78079-0022</td><td>3.18</td><td>2.36</td></tr><tr><td>78079-0051</td><td rowspan="8">NATURAL (OFFWHITE)</td><td>2.67</td><td>1.57</td><td rowspan="3">0.38 MICROMETER/ 15 MICROINCH MIN. GOLD ON CONTACT 2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN ON SOLDERTAILS 1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE</td><td rowspan="3">PS-78079-001</td></tr><tr><td>78079-0053</td><td>3.00</td><td>2.18</td></tr><tr><td>78079-0052</td><td>3.18</td><td>2.36</td></tr><tr><td>78079-0061</td><td>2.67</td><td>1.57</td><td rowspan="3">0.76 MICROMETER/ 30 MICROINCH MIN. GOLD ON CONTACT 2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN ON SOLDERTAILS 1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE</td><td rowspan="3">PS-78079-002</td></tr><tr><td>78079-0063</td><td>3.00</td><td>2.18</td></tr><tr><td>78079-0062</td><td>3.18</td><td>2.36</td></tr><tr><td>78079-0071</td><td>2.67</td><td>1.57</td><td rowspan="3">0.076 MICROMETER/ 3 MICROINCH MIN. GOLD ON CONTACT 2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN ON SOLDERTAILS 1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE</td><td rowspan="3">PS-78079-003</td></tr><tr><td>78079-0073</td><td>3.00</td><td>2.18</td></tr><tr><td>78079-0072</td><td>3.18</td><td>2.36</td></tr></table>										ASSEMBLY PART NO.	VOLTAGE KEY	HOUSING COLOR	LATCH COLOR	DIM 'P'	RECOMMENDED PCB THICKNESS	PLATING OPTION	PRODUCT SPECIFICATION	78079-0001	CENTRE (1.5V)	BLACK	BLACK	2.67	1.57	0.38 MICROMETER/ 15 MICROINCH MIN. GOLD ON CONTACT 2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN ON SOLDERTAILS 1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE	PS-78079-001	78079-0003	3.00	2.18	78079-0002	3.18	2.36	78079-0011	2.67	1.57	0.76 MICROMETER/ 30 MICROINCH MIN. GOLD ON CONTACT 2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN ON SOLDERTAILS 1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE	PS-78079-002	78079-0013	3.00	2.18	78079-0012	3.18	2.36	78079-0021	2.67	1.57	0.076 MICROMETER/ 3 MICROINCH MIN. GOLD ON CONTACT 2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN ON SOLDERTAILS 1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE	PS-78079-003	78079-0023	3.00	2.18	78079-0022	3.18	2.36	78079-0051	NATURAL (OFFWHITE)	2.67	1.57	0.38 MICROMETER/ 15 MICROINCH MIN. GOLD ON CONTACT 2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN ON SOLDERTAILS 1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE	PS-78079-001	78079-0053	3.00	2.18	78079-0052	3.18	2.36	78079-0061	2.67	1.57	0.76 MICROMETER/ 30 MICROINCH MIN. GOLD ON CONTACT 2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN ON SOLDERTAILS 1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE	PS-78079-002	78079-0063	3.00	2.18	78079-0062	3.18	2.36	78079-0071	2.67	1.57	0.076 MICROMETER/ 3 MICROINCH MIN. GOLD ON CONTACT 2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN ON SOLDERTAILS 1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE	PS-78079-003	78079-0073	3.00	2.18	78079-0072	3.18	2.36	F													
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ASSEMBLY PART NO.	VOLTAGE KEY	HOUSING COLOR	LATCH COLOR	DIM 'P'	RECOMMENDED PCB THICKNESS	PLATING OPTION		PRODUCT SPECIFICATION	
78079-0201	CENTRE (1.5V)	BLUE		2.67	1.57	0.38 MICROMETER/ 15 MICROINCH MIN. GOLD ON CONTACT		PS-78079-001	
78079-0203				3.00	2.18	2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN ON SOLDERTAILS			
78079-0202				3.18	2.36	1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE			
78079-0211				2.67	1.57	0.76 MICROMETER/ 30 MICROINCH MIN. GOLD ON CONTACT		PS-78079-002	
78079-0213				3.00	2.18	2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN ON SOLDERTAILS			
78079-0212				3.18	2.36	1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE			
78079-0221		NATURAL (OFFWHITE)	2.67	1.57	0.076 MICROMETER/ 3 MICROINCH MIN. GOLD ON CONTACT		PS-78079-003		
78079-0223			3.00	2.18	2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN ON SOLDERTAILS				
78079-0222			3.18	2.36	1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE				
78079-0351			GREEN	2.67	1.57	0.38 MICROMETER/ 15 MICROINCH MIN. GOLD ON CONTACT		PS-78079-001	
78079-0353				3.00	2.18	2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN ON SOLDERTAILS			
78079-0352				3.18	2.36	1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE			
78079-0361		2.67		1.57	0.76 MICROMETER/ 30 MICROINCH MIN. GOLD ON CONTACT		PS-78079-002		
78079-0363		3.00		2.18	2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN ON SOLDERTAILS				
78079-0362		3.18		2.36	1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE				
78079-0371		2.67		1.57	0.076 MICROMETER/ 3 MICROINCH MIN. GOLD ON CONTACT		PS-78079-003		
78079-0373		3.00		2.18	2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN ON SOLDERTAILS				
78079-0372		3.18		2.36	1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE				

FORKLOCK UPDATED EC NO: S2010-0888 DRWN: JAKEEWEW 2010/04/29 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		
				mm	INCH	DRAWN BY YTYANG01		DATE 2006/08/11		TITLE DDR3 DIMM, 1.00MM PITCH 240 CKTS, VERTICAL T/H	
			4 PLACES	± ---	± ---	CHECKED BY SHLENI		DATE 2006/09/07			
			3 PLACES	± ---	± ---	APPROVED BY SHLENI		DATE 2010/06/10			
			2 PLACES	± 0.2	± ---						
			1 PLACE	± ---	± ---	MATERIAL NO.		DOCUMENT NO.		SHEET NO. 7 OF 8	
			ANGULAR ± 1 °								
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE A3		SEE TABLE		SD-78079-001				
A4	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									

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D

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B

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ASSEMBLY PART NO.	VOLTAGE KEY	HOUSING COLOR	LATCH COLOR	DIM 'P'	RECOMMENDED PCB THICKNESS	PLATING OPTION	PRODUCT SPECIFICATION
78079-0101	CENTRE (1.5V)	NATURAL (OFFWHITE)	NATURAL (OFFWHITE)	2.67	1.57	0.38 MICROMETER/ 15 MICROINCH MIN. GOLD ON CONTACT 2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN ON SOLDERTAILS 1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE	PS-78079-001
78079-0103				3.00	2.18		
78079-0102				3.18	2.36		
78079-0111				2.67	1.57	0.76 MICROMETER/ 30 MICROINCH MIN. GOLD ON CONTACT 2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN ON SOLDERTAILS 1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE	PS-78079-002
78079-0113				3.00	2.18		
78079-0112				3.18	2.36		
78079-0121				2.67	1.57	0.076 MICROMETER/ 3 MICROINCH MIN. GOLD ON CONTACT 2.54 MICROMETER/ 100 MICROINCH MIN. PURE TIN ON SOLDERTAILS 1.27 MICROMETER/ 50 MICROINCH MIN. NICKEL UNDERPLATE	PS-78079-003
78079-0123				3.00	2.18		
78079-0122				3.18	2.36		

FORKLOCK UPDATED EC NO: S2010-0888 DRWN: JAKEEWEW 2010/04/29 CHKD: CTEH 2010/06/10 APPR: SHLENI 2010/06/13	DESCRIPTION	QUALITY SYMBOLS $F_A=0$ $F_G=0$ $F_P=0$	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
					MM ONLY		NTS	METRIC	
					DRAWN BY	DATE	DDR3 DIMM, 1.00MM PITCH 240 CKTS, VERTICAL T/H		
					CHECKED BY	DATE			
					APPROVED BY	DATE	MOLEX INCORPORATED		
			ANGULAR $\pm 1^\circ$		SHLENI 2010/06/10				
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.		SHEET NO.
					SEE TABLE		SD-78079-001		8 OF 8
					SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
A3									