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Part Number: [0879660001](#)
Status: **Active**
Description: 1.00mm (.039") Pitch DDR2 DIMM Socket, Vertical, Surface Mount, Center Keys, Black Latches, with Beveled Metal Pins, 240 Circuits, Lead-free

Documents:

[3D Model](#) [Product Specification PS-87966-001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

UL E29179

General

Product Family Memory Module Sockets
 Series [87966](#)
 Comments Latches in Black Color
 Component Type Memory Module
 JEDEC Outline MO-237
 Product Name DDR2 DIMM

Physical

Circuits (Loaded) 240
 Color - Resin Black
 Durability (mating cycles max) 25
 Entry Angle Vertical (Top Entry)
 Flammability 94V-0
 Keying to Mating Part Yes
 Material - Metal Brass, Phosphor Bronze
 Material - Plating Mating Gold
 Material - Plating Termination Tin
 Material - Resin High Temperature Thermoplastic
 PCB Locator Yes
 PCB Retention Yes
 PCB Thickness Recommended (in) 0.062 In
 PCB Thickness Recommended (mm) 1.60 mm
 Packaging Type Tray
 Pitch - Mating Interface (in) 0.039 In
 Pitch - Mating Interface (mm) 1.00 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 -10°C to +85°C
 Termination Interface: Style Surface Mount

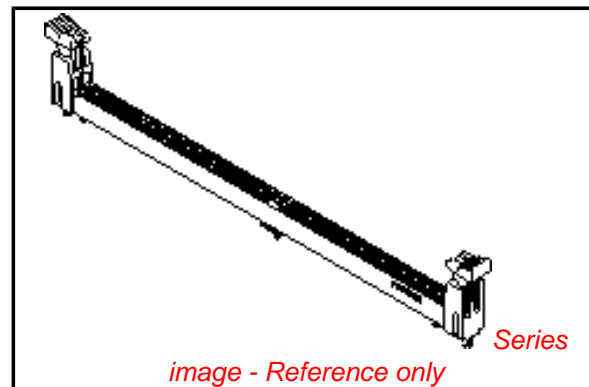
Electrical

Current - Maximum per Contact 1A
 Voltage - Maximum 30V
 Voltage Key 1.8V, Center

Solder Process Data

Duration at Max. Process Temperature (seconds) 3
 Lead-free Process Capability Reflow Capable (SMT only)
 Max. Cycles at Max. Process Temperature 1
 Process Temperature max. C 250

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
 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

[87966Series](#)

Mates With

JEDEC MO-237 modules

Reference - Drawing Numbers

Product Specification
Sales Drawing

PS-87966-001, RPS-87966-001
SD-87966-002

This document was generated on 04/09/2010

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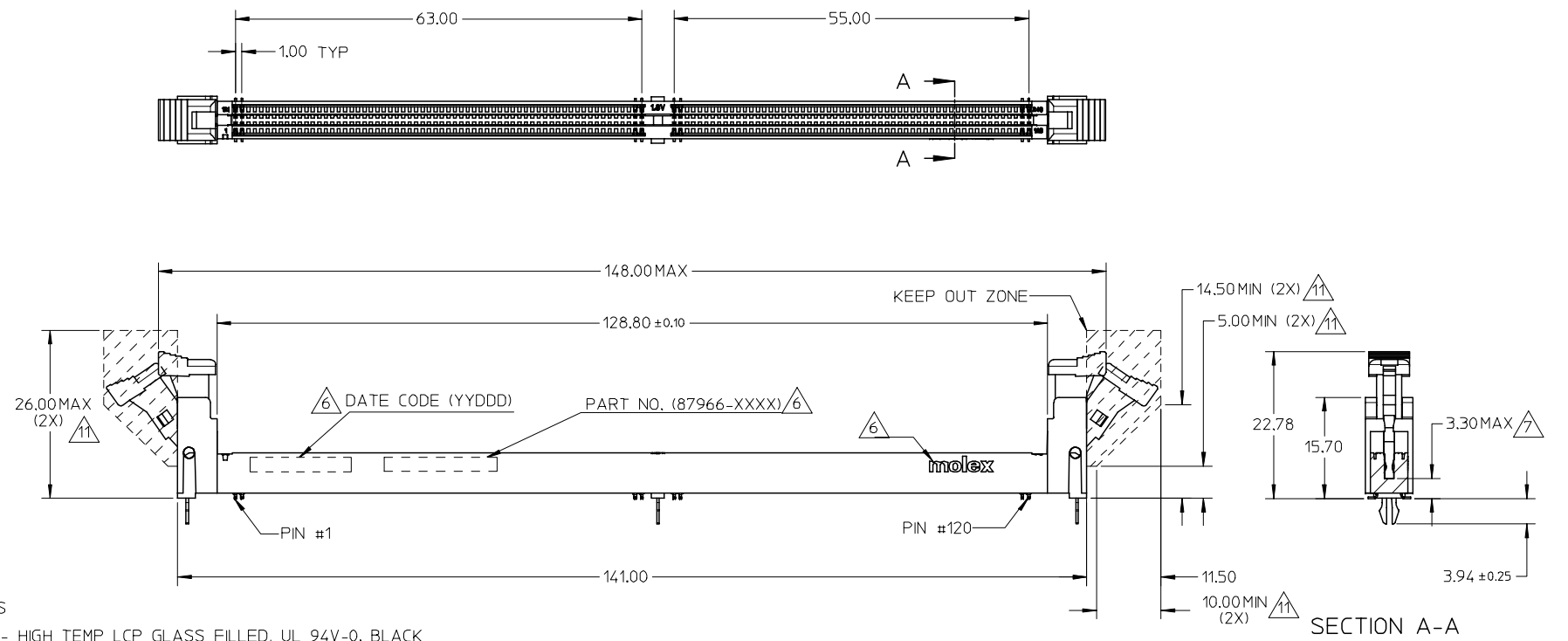
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C C

B B

A A



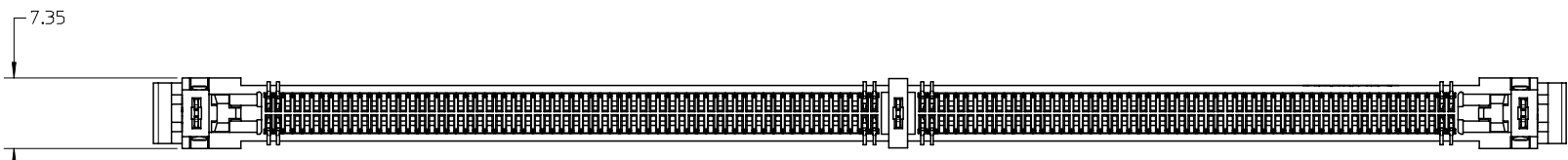
- NOTES:
- MATERIALS
HOUSING - HIGH TEMP LCP GLASS FILLED, UL 94V-0, BLACK
EJECTORS - HIGH TEMP NYLON GLASS FILLED, UL 94V-0, BLACK
TERMINALS - COPPER ALLOY
 - PLATING OPTION - PLS REFER TO SHEET 5.
 - CARD SLOT ACCEPTS 1.27±0.10MM MODULE THICKNESS. (MEASURED OVER PC PADS)
 - RECOMMENDED MODULE LAYOUT SHALL BE AS PER JEDEC MO-237. PLS REFER TO SHEET 3.
 - PRODUCT IS PACKED INTO TRAYS.
 - MOLEX LOGO, DATE CODE & PART NO. INDICATED ON HOUSING.
 - DIMM MODULE SEATING PLANE FROM TOP OF PCB.
 - COPLANARITY FOR SOLDER TAILS SHALL NOT EXCEED 0.20MM.
 - REFER TO PRODUCT SPEC. PS-87966-001 FOR PERFORMANCE SPECIFICATIONS.
 - THE KEEP OUT AREA IS THE AREA WHERE THE CONNECTOR IS MOUNTED ONTO THE PCB, WHICH DOES NOT INCLUDE THE LATCH.
 - KEEP OUT ZONE AS PER JEDEC SO-001.
 - CONTACT MOLEX FOR AVAILABILITY OF PRODUCT OPTIONS.

REVISED PAD SIZE EC NO: S2007-0667 DRWN: CCTEH CHKD: SRAMESH APPR: SILENI	DESCRIPTION 2007/02/08 2007/02/08 2007/02/09	QUALITY SYMBOLS ▽=0 ▽C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM ONLY	SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION																
			<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>± 0.10</td> <td>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± ---</td> <td>± ---</td> </tr> </tbody> </table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.10	± ---	1 PLACE	± ---	± ---	DRAWN BY CCTEH	DATE 2005/10/19	TITLE DDR2 DIMM, 1.00MM PITCH 240 CKTS, SMT		
			mm	INCH																			
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3 PLACES	± ---	± ---																					
2 PLACES	± 0.10	± ---																					
1 PLACE	± ---	± ---																					
	ANGULAR ± 1 °	CHECKED BY SRAMESH	DATE 2005/11/21	MOLEX INCORPORATED																			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	APPROVED BY GGLEE	DATE 2005/11/21	MATERIAL NO.	DOCUMENT NO. SD-87966-002	SHEET NO. 1 OF 5																	

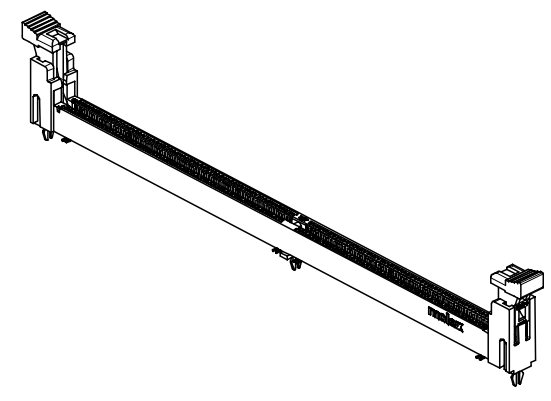
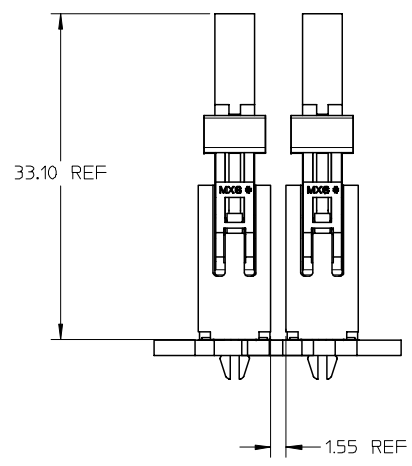
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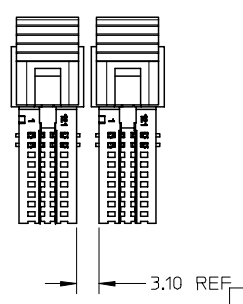
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D

C

B



A

REVISED PAD SIZE
 EC NO: S2007-0667
 DRWN: CCTEH
 CHKD: SRRAMESH
 APPR: SHLENI

DESCRIPTION
 2007/02/08
 2007/02/08
 2007/02/09

QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	
	mm	INCH
▽=0	4 PLACES ± ---	± ---
▽=0	3 PLACES ± ---	± ---
	2 PLACES ± 0.10	± ---
	1 PLACE ± ---	± ---
	ANGULAR ± 1 °	

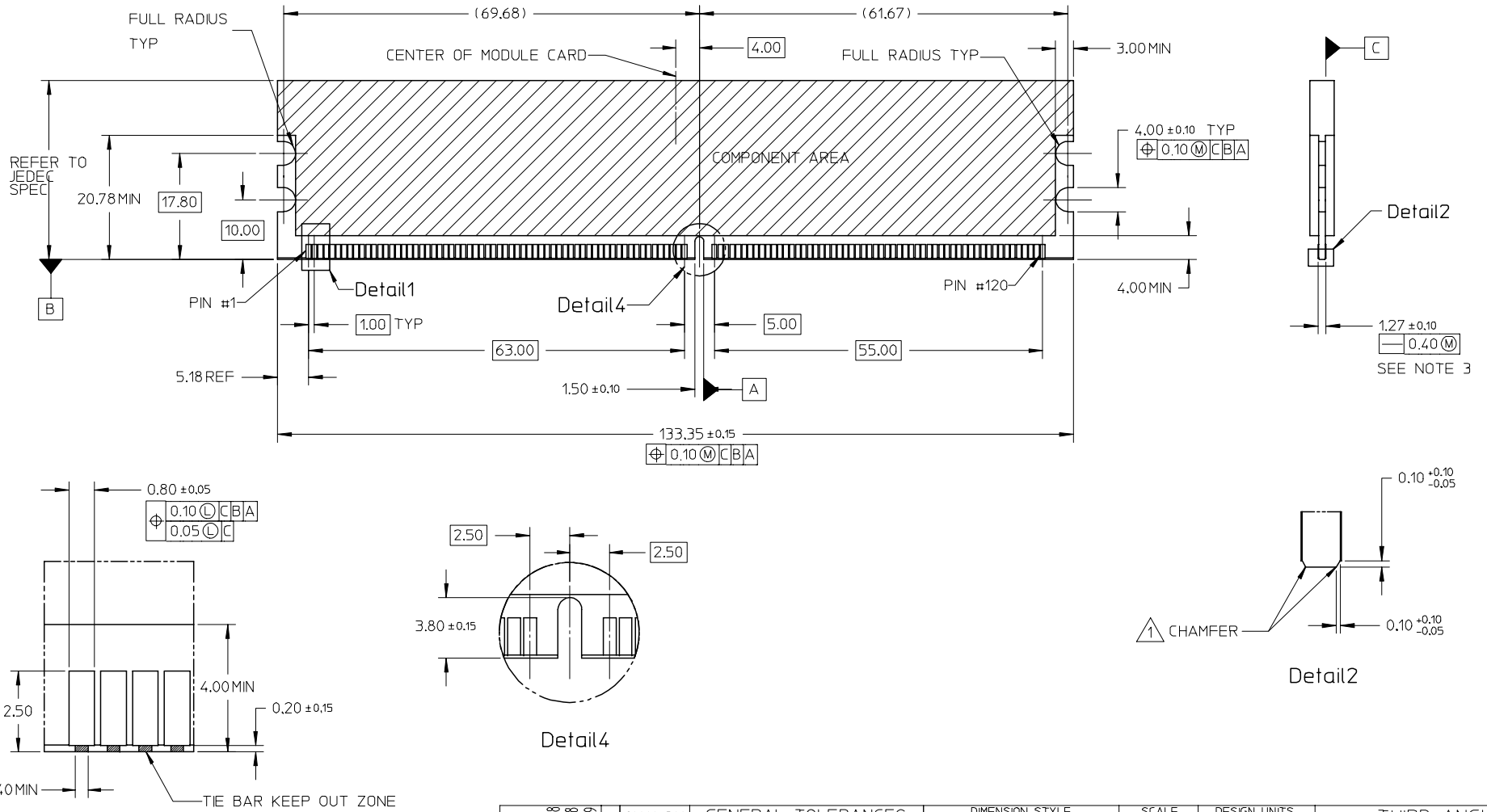
DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
MM ONLY		NTS	METRIC	
DRAWN BY	DATE	TITLE	MOLEX INCORPORATED SD-87966-002	
CCTEH	2005/10/19	DDR2 DIMM, 1.00MM PITCH 240 CKTS, SMT		
CHECKED BY	DATE			
SRRAMESH	2005/11/21			
APPROVED BY	DATE			
GGLEE	2005/11/21			

MATERIAL NO.	DOCUMENT NO.	SHEET NO.
		2 OF 5

SEE TABLE
 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

RECOMMENDED MODULE LAYOUT



NOTES:
 1. MODULE CARD USED IN PRODUCT TESTING ARE CHAMFER.

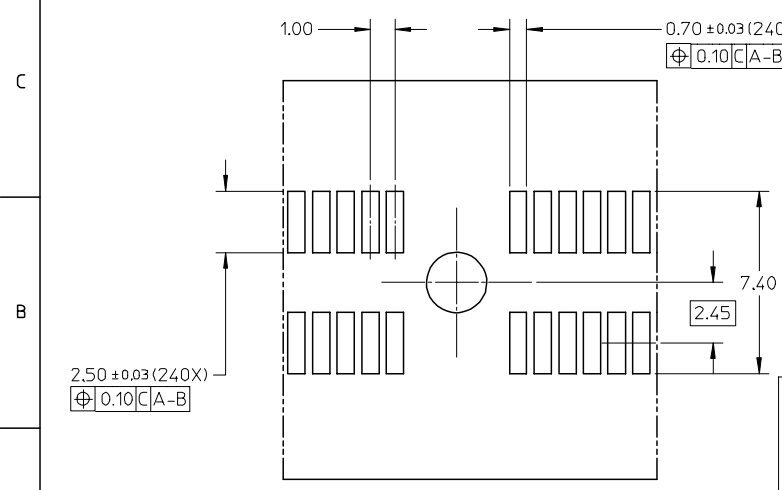
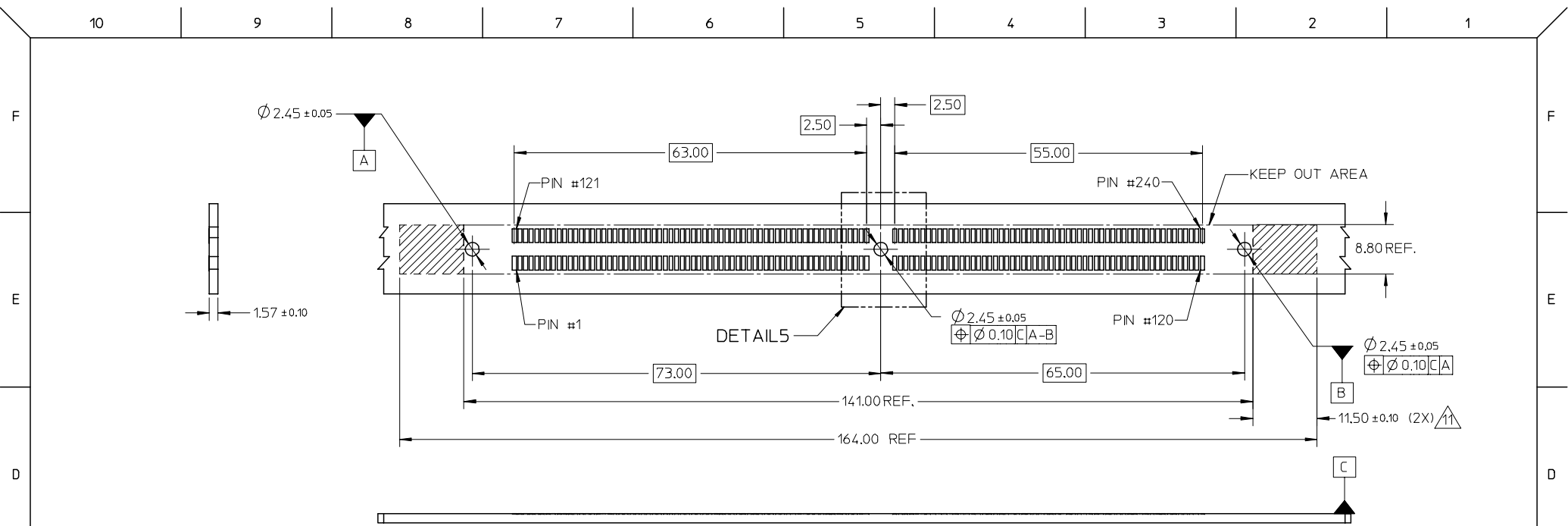
REVISED PAD SIZE	EC NO: S2007-0667	2007/02/08
DRWN: CCTEH	CHKD: SRRAMESH	2007/02/08
APPR: SHLENI		2007/02/09
B1	REV	DESCRIPTION

QUALITY SYMBOLS	▽=0
	∇=0

GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.10	± ---
1 PLACE	± ---	± ---
ANGULAR ± 1 °		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
MM ONLY		NTS	METRIC	
DRAWN BY	DATE	TITLE		
CCTEH	2005/10/19	DDR2 DIMM, 100MM PITCH		
CHECKED BY	DATE	240 CKTS, SMT		
SRRAMESH	2005/11/21			
APPROVED BY	DATE	MOLEX INCORPORATED		
GGLEE	2005/11/21			
MATERIAL NO.	DOCUMENT NO.	SHEET NO.		
	SD-87966-002	3 OF 5		

SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
A3			








RECOMMENDED STENCIL THICKNESS = 150µM.

REVISED PAD SIZE EC NO: S2007-0667 DRWN: CCTEH CHKD: SRRAMESH APPR: SILENI	2007/02/08 2007/02/08 2007/02/09	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY CCTEH	DATE 2005/10/19	TITLE DDR2 DIMM, 100MM PITCH 240 CKTS, SMT				
			4 PLACES	± ---	± ---	CHECKED BY SRRAMESH	DATE 2005/11/21					
			3 PLACES	± ---	± ---	APPROVED BY GGLEE	DATE 2005/11/21					
		ANGULAR ± 1 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87966-002		4 OF 5						

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ASSEMBLY PART NO.	VOLTAGE KEY POS.	PLATING	LATCH COLOR	LUBRICATION
87966-0001	CENTRE 1.8V	0.76µM (30µ IN) MIN. GOLD ON CONTACT	BLACK	NO
87966-0002		2.54µM (100µ IN) MIN. TIN ON SOLDER TAILS		YES
		1.27µM (50µ IN) MIN. NICKEL UNDERPLATE		

REVISED PAD SIZE EC NO: S2007-0667 DRWN: CTEH CHKD: SRRAMESH APPR: SILENI	2007/02/08	2007/02/08	2007/02/09	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>± .005</td> <td>± .0008</td> </tr> <tr> <td>3 PLACES</td> <td>± .005</td> <td>± .0008</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.10</td> <td>± .004</td> </tr> <tr> <td>1 PLACE</td> <td>± .005</td> <td>± .0008</td> </tr> </tbody> </table> ANGULAR ± 1 °		mm	INCH	4 PLACES	± .005	± .0008	3 PLACES	± .005	± .0008	2 PLACES	± 0.10	± .004	1 PLACE	± .005	± .0008	DIMENSION STYLE MM ONLY	SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
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2 PLACES	± 0.10	± .004																						
1 PLACE	± .005	± .0008																						
DESCRIPTION	DATE	DATE	DATE	DRAWN BY: CTEH CHECKED BY: SRRAMESH APPROVED BY: GGLEE	DATE: 2005/10/19 DATE: 2005/11/21 DATE: 2005/11/21	TITLE: DDR2 DIMM, 1.00MM PITCH 240 CKTS, SMT	 MOLEX INCORPORATED	SHEET NO. 5 OF 5																
REV				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SEE TABLE	MATERIAL NO. SD-87966-002	DOCUMENT NO.																	
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