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Part Number: 0879190101

Status: Active

Description: 1.00mm (.039") Pitch DDR-2 DIMM Socket, 25 Degree Reverse Angle, Through Hole, 240 Circuits, 1.8V Voltage Key, 2.79mm (.110") Tail Length, 0.38µm (15µ") Gold (Au) Plating, Lead-free



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Product Specification PS-87919-006 (PDF)
RoHS Certificate of Compliance (PDF)

General

Product Family	Memory Module Sockets
Series	87919
Comments	<LI>Latches in Off-White Color
Component Type	Socket
JEDEC Outline	MO-237
Product Name	DDR2 DIMM

Physical

Circuits (Loaded)	240
Color - Resin	Black, Natural
Durability (mating cycles max)	25
Entry Angle	25° Angle
Keying to Mating Part	Yes
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
PC Tail Length (in)	0.110 In
PC Tail Length (mm)	2.79 mm
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)	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	0.5A
Voltage - Maximum	30V
Voltage Key	1.8V

Solder Process Data

Duration at Max. Process Temperature (seconds)	10
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

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free Status
Not Halogen-Free

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.

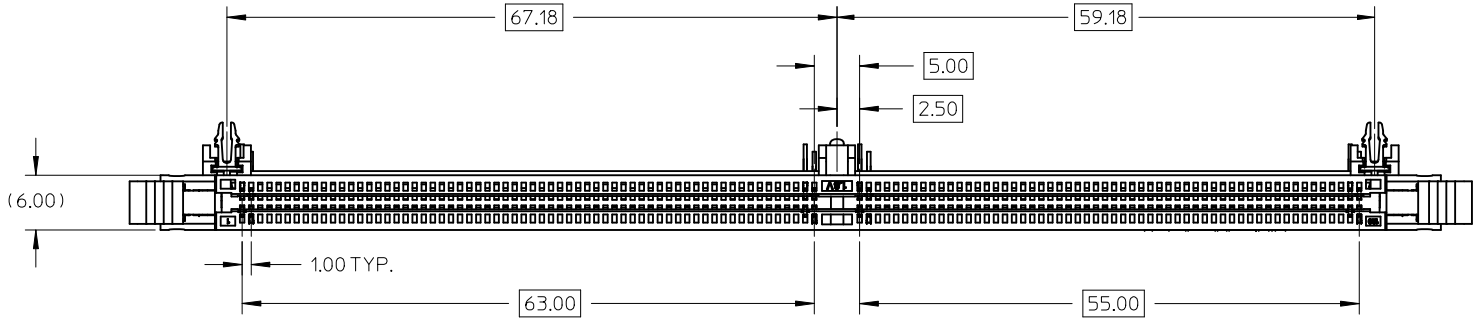
Search Parts in this Series
87919Series

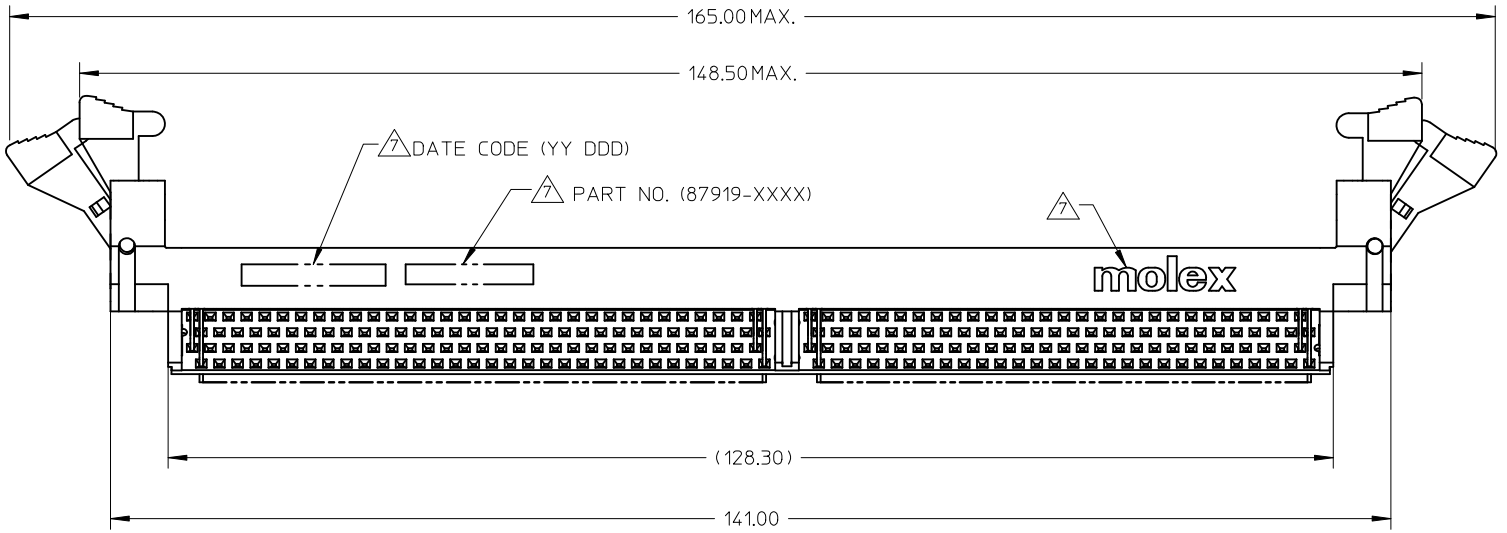
Mates With
JEDEC standard 1.27mm modules

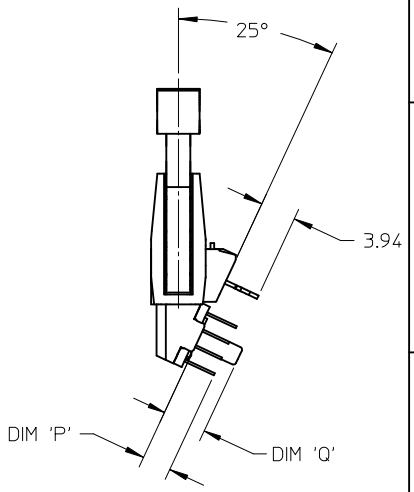
Product Specification	PS-87919-006
Sales Drawing	SD-87919-001

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NOTES:

1. MATERIAL : HOUSING & BASEPLATE.
   - LCP, GLASS FILLED, UL94-V0, BLACK.
   LATCH.
   - HIGH TEMP. NYLON, GLASS FILLED, UL94-V0, NATURAL (OFF WHITE).
   TERMINALS & FORKLOCK - COPPER ALLOY.
2. PLATING : CONTACT AREA - SEE TABLE ON SHEET 5.
   SOLDERTAIL - SEE TABLE ON SHEET 5.
3. CARD SLOT ACCEPTS 1.27+/-0.10MM MODULE THICKNESS (MEASURED OVER PC PADS).
4. REFER TO PRODUCT SPECIFICATION, PS-87919-001 FOR PERFORMANCE SPECIFICATION.
5. RECOMMENDED MODULE CARD LAYOUT SHALL BE AS PER JEDEC MO-237.
6. PRODUCT SHALL BE PACKED IN TRAY. PLS REFER TO SHEET 6.
7. MOLEX LOGO, DATE & PART NUMBER INDICATED ON HOUSING.

ADDED OPTION
EC NO: S2010-0393 2009/11/16
DRWN:CCTEH 2009/11/16
CH'KD:CGTAN 2009/11/17
APPR:SHLEN1
DESCRIPTION
A7
REV

QUALITY SYMBOLS
A =0
C =0
B =0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± ---	± ---

ANGULAR ± 5 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

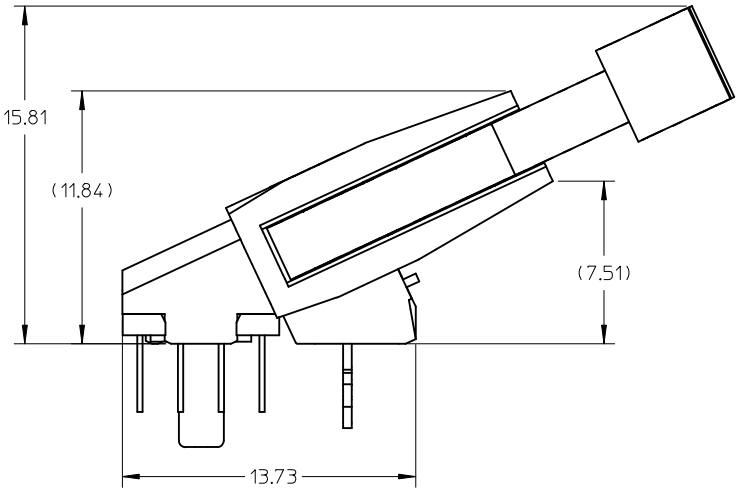
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CHECKED BY: MLONG DATE: 2004/06/11
APPROVED BY: GGLEE DATE: 2004/06/11

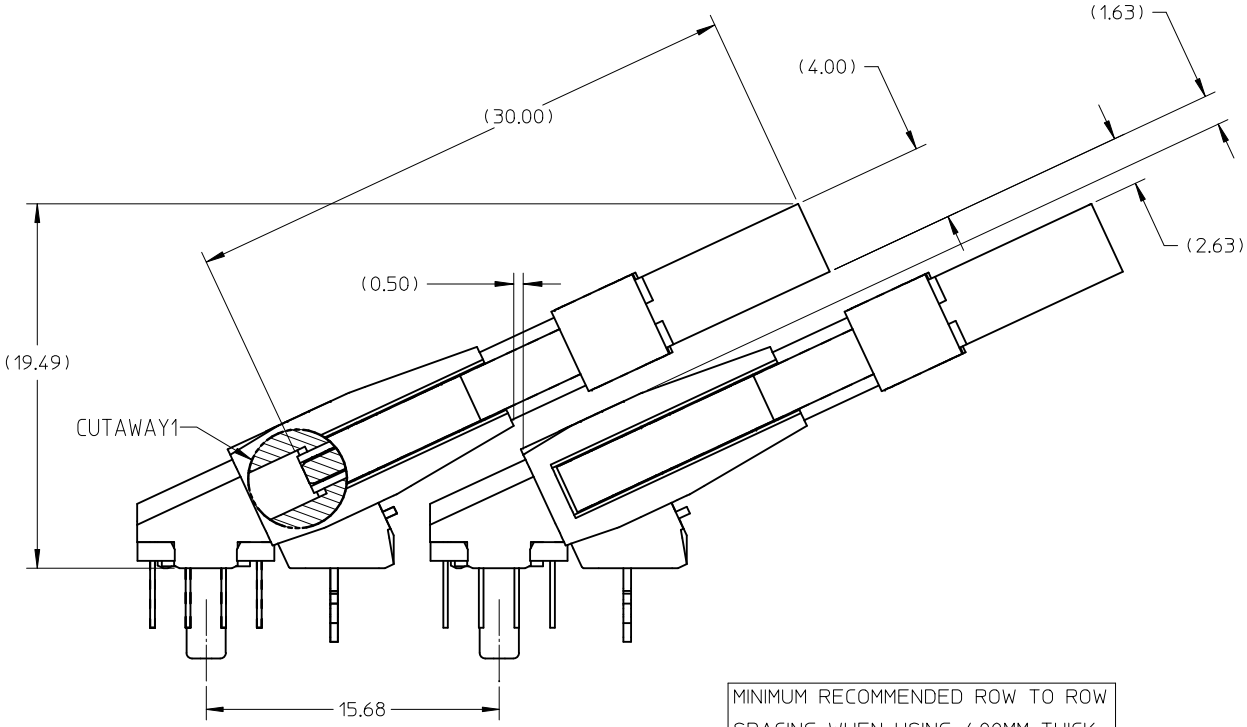
TITLE: DDR2 DIMM, 1.00MM PITCH 240 CKTS, 25 DEG. REVERSE ANGLE

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MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87919-001
SHEET NO.: 1 OF 6
SIZE: A3

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MINIMUM RECOMMENDED ROW TO ROW SPACING WHEN USING 4.00MM THICK MODULE.

ADDED OPTION	2009/11/16	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS
EC NO: S2010-0393	2009/11/16				MM ONLY	NTS	METRIC
DRWN:CCTEH	2009/11/16						THIRD ANGLE PROJECTION
CH'KD:CGTAN	2009/11/17						
APPR:SHLENI							

GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± ---	± ---
ANGULAR ± 5 °		

QUALITY SYMBOLS: FA=0, FC=0, FP=0

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DRAWN BY	JTAN	DATE 2004/05/26
CHECKED BY	MLONG	DATE 2004/06/11
APPROVED BY	GGLEE	DATE 2004/06/11

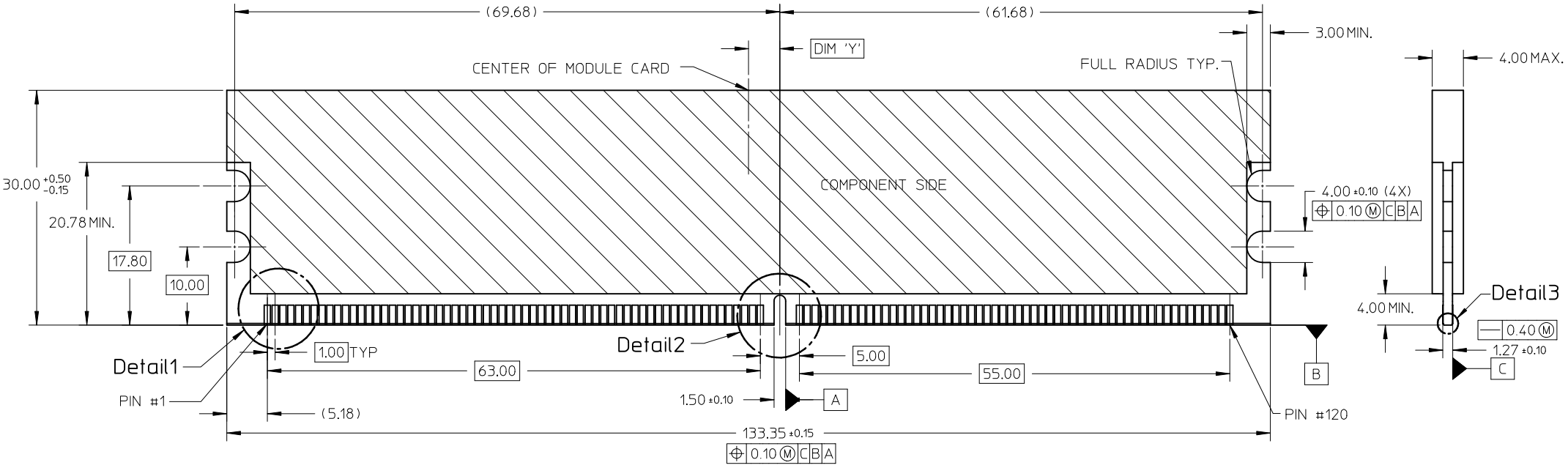
TITLE: DDR2 DIMM, 1.00MM PITCH 240 CKTS, 25 DEG. REVERSE ANGLE

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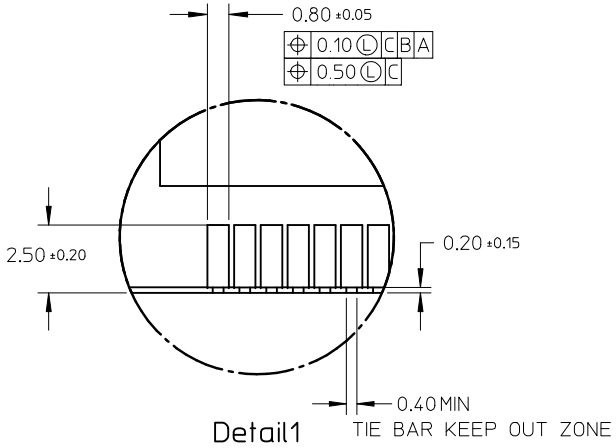
MATERIAL NO.	DOCUMENT NO.	SHEET NO.
SEE TABLE	SD-87919-001	2 OF 6

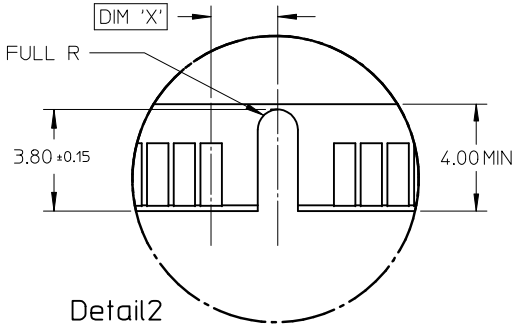
REV: A7 | SIZE: A3

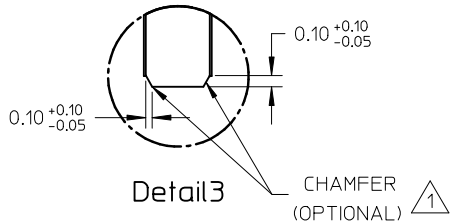
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RECOMMENDED MODULE LAYOUT







KEY LOCATION	VOLTAGE	DIM 'X'	DIM 'Y'
CENTER	1.8V	2.50	4.00

NOTES :

1. MODULE CARD USED IN PRODUCT TESTING ARE CHAMFERED.

ADDED OPTION 2009/11/16
EC NO: S2010-0393 2009/11/16
DRWN:CCTEH CH'KD:CGTAN APPR:SHLENI 2009/11/17
DESCRIPTION
REV A7

QUALITY SYMBOLS
F_A=0
F_C=0
F_B=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± ---	± ---
ANGULAR ± 5 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

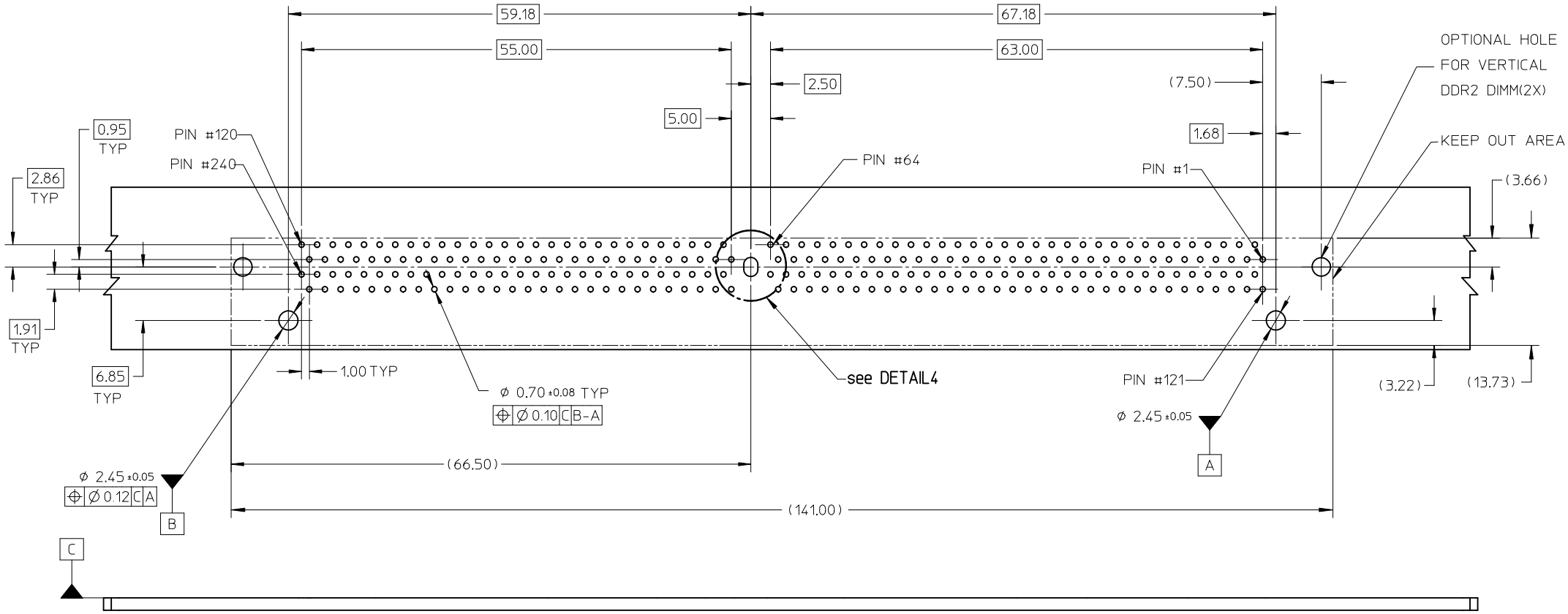
DRAWN BY: JTAN DATE: 2004/05/26
CHECKED BY: MLONG DATE: 2004/06/11
APPROVED BY: GGLEE DATE: 2004/06/11

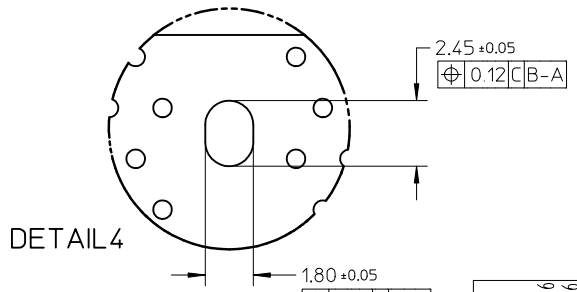
TITLE: DDR2 DIMM, 1.00MM PITCH 240 CKTS, 25 DEG. REVERSE ANGLE

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87919-001
SHEET NO.: 3 OF 6
SIZE: A3

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DETAIL4

ADDED OPTION
EC NO: S2010-0393 2009/11/16
DRWN:CCTEH 2009/11/16
CH'KD:CGTAN 2009/11/17
APPR:SHLEN1

DESCRIPTION

REV

A7

QUALITY SYMBOLS
=0
=0
=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± ---	± ---

ANGULAR ± 5 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JTAN DATE: 2004/05/26
CHECKED BY: MLONG DATE: 2004/06/11
APPROVED BY: GGLEE DATE: 2004/06/11

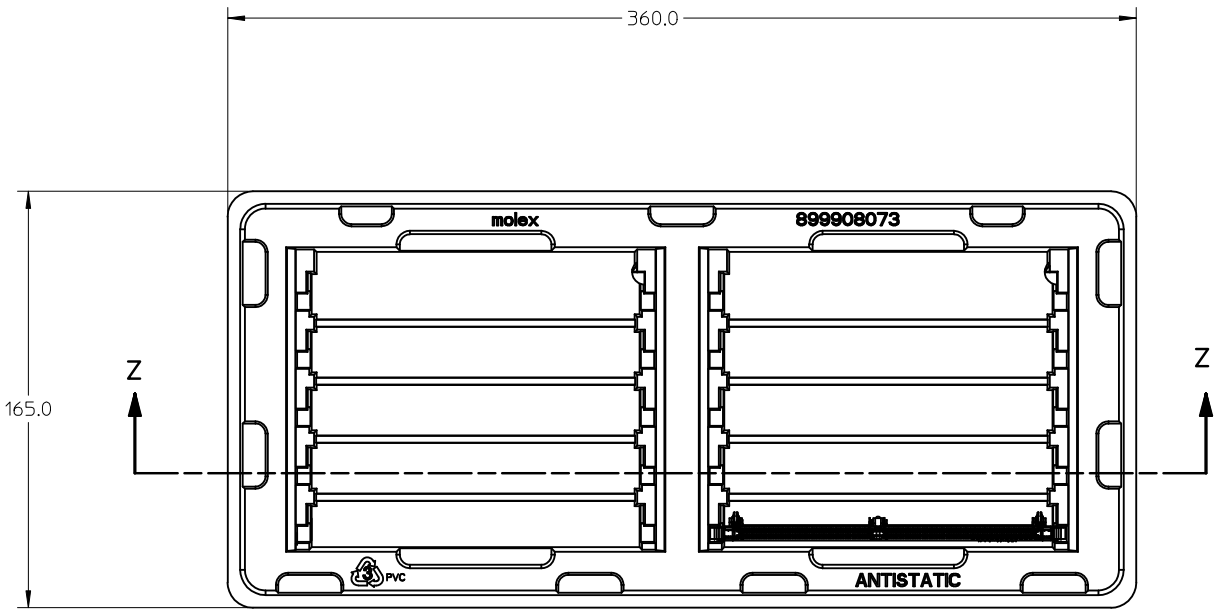
TITLE: DDR2 DIMM, 1.00MM PITCH
240 CKTS, 25 DEG.
REVERSE ANGLE

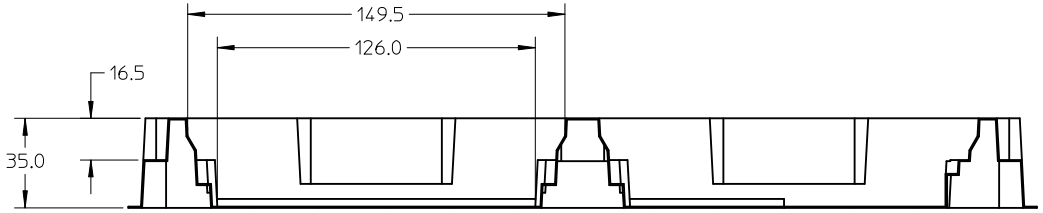
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MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87919-001
SHEET NO.: 4 OF 6

SIZE: A3

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SECTION Z-Z

NOTE:

1. CAVITY QTY : 2 X 5 = 10

ADDED OPTION	2009/11/16	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
EC NO: S2010-0393	2009/11/16			mm	INCH	MM ONLY	NTS	METRIC		
DRWN:CCTEH	2009/11/16	=0	4 PLACES	± ---	± ---	DRAWN BY JTAN	DATE 2004/05/26	TITLE	DDR2 DIMM, 1.00MM PITCH 240 CKTS, 25 DEG. REVERSE ANGLE	
CH'KD:CGTAN		=0	3 PLACES	± ---	± ---	CHECKED BY MLONG	DATE 2004/06/11			
APPR:SHLENI	2009/11/17	=0	2 PLACES	± 0.25	± ---	APPROVED BY GGLEE	DATE 2004/06/11	molex	MOLEX INCORPORATED	
DESCRIPTION			1 PLACE	± ---	± ---	MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87919-001		SHEET NO. 5 OF 6
A7	REV		ANGULAR ± 5 °			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	

PART NO.	VOLTAGE KEY	DIM 'P'	DIM 'Q'	RECOMMENDED PCB THICKNESS	CONTACT AREA PLATING	SOLDERTAIL PLATING	LATCH COLOR
87919-0001	1.8V	2.79	3.18	1.57	0.76uM/ 30u" GOLD OVER 1.27uM/ 50u" MIN NICKEL	2.54uM/ 100u" MIN. TIN OVER 1.27uM/ 50u" MIN NICKEL	NATURAL
87919-0011		3.18	4.83	2.36			
87919-1001		4.00		3.18			
87919-1002		4.60		3.50			
87919-0101		2.79	3.18	1.57	0.38uM/ 15u" GOLD OVER 1.27uM/ 50u" MIN NICKEL		
87919-0111		3.18	4.83	2.36			BLACK
87919-0333							

ADDED OPTION
EC NO: S2010-0393 2009/11/16
DRWN:CCTEH 2009/11/16
CH'KD:CGTAN 2009/11/17
APPR:SHLEN 2009/11/17
DESCRIPTION
REV
A7

QUALITY SYMBOLS
F/C/P =0
F/C =0
F/P =0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.25	± ---
1 PLACE	± ---	± ---

ANGULAR ± 5 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: NTS
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY: JTAN DATE: 2004/05/26
CHECKED BY: MLONG DATE: 2004/06/11
APPROVED BY: GGLEE DATE: 2004/06/11

TITLE: DDR2 DIMM, 1.00MM PITCH 240 CKTS, 25 DEG. REVERSE ANGLE

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87919-001
SHEET NO.: 6 OF 6

SIZE: A3

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