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Part Number: 0878030122
Status: Active
Description: 1.00mm (.039") Pitch DDR-2 DIMM Socket, 25 Degree Angle, Through Hole, 1.8V Voltage Key, 2.79mm (.110") Tail Length, 0.76µm

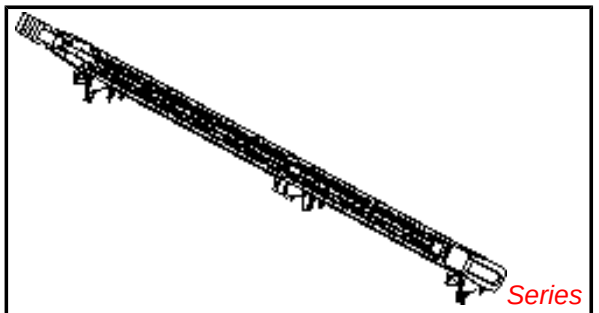


image - Reference only

Documents:
3D Model
Drawing (PDF)
Product Specification PS-87803-003 (PDF)
RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	Memory Module Sockets
Series	87803
Comments	<LI>Latches in Off-white color<LI>Lubricant at the Contact
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
Flammability	94V-0
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)	30
Plating min: Mating (µm)	0.76
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 AC (RMS)/DC
Voltage Key	1.8V, Center

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

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
87803Series

Mates With
JEDEC standard 1.27mm modules

Process Temperature max. C	260

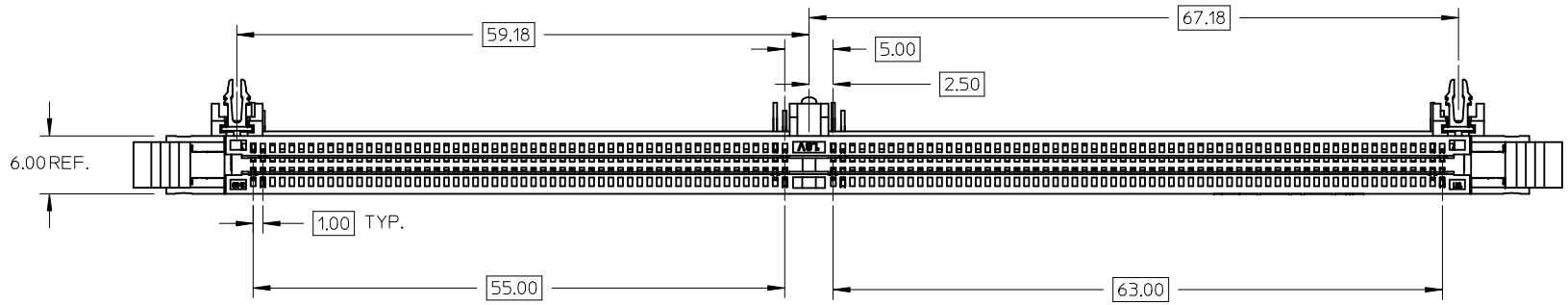
Material Info

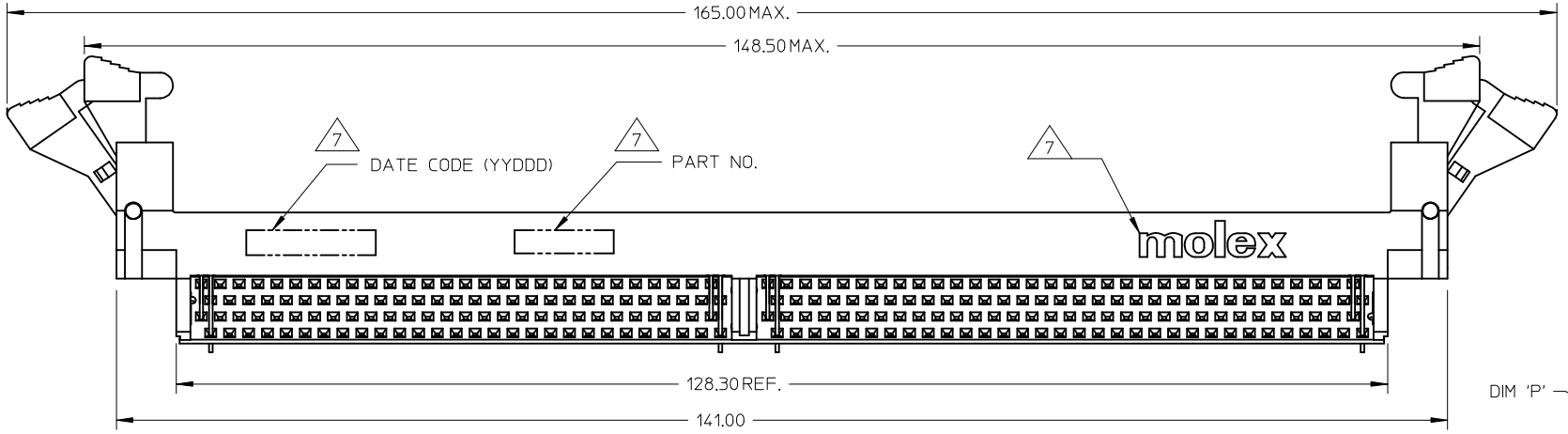
Reference - Drawing Numbers

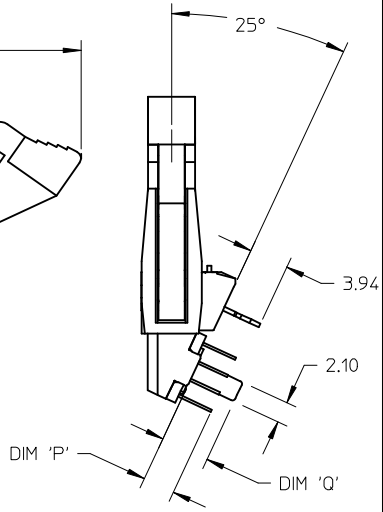
Product Specification	PS-87803-003
Sales Drawing	SD-87803-010

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NOTES:

1. MATERIALS : HOUSING AND BASEPLATE
   - LCP, GLASS FILLED, UL 94V-0, BLACK
   LATCH
   - HIGH TEMP. NYLON, GLASS FILLED, UL 94-0, NATURAL (OFF WHITE)
   TERMINALS AND FORKLOCK - COPPER ALLOY
2. PLATING : CONTACT AREA - SEE TABLE IN SHEET 5
   SOLDERTAIL - SEE TABLE IN SHEET 5
3. REFER TO PRODUCT SPECIFICATION, PS-87803-003 FOR PERFORMANCE SPECIFICATIONS.
4. CARD SLOTS ACCEPTS 1.27±0.10 MM MODULE THICKNESS. (MEASURED OVER PC PADS)
5. RECOMMENDED MODULE CARD LAYOUT SHALL BE AS PER JEDEC MO-237.
6. PRODUCT IS PACKED IN TRAY.
7. MOLEX LOGO, DATE CODE AND PART NUMBER INDICATED ON HOUSING.
8. CONTACT MOLEX FOR AVAILABILITY OF PRODUCT OPTIONS.

ADDED OPTION
EC NO: S2009-0629
DRWN:CCTEH 2009/03/27
CH'KD:CGTAN 2009/03/27
APPR:SHLEN1 2009/03/27
DESCRIPTION
REV
B1

QUALITY SYMBOLS
▼=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

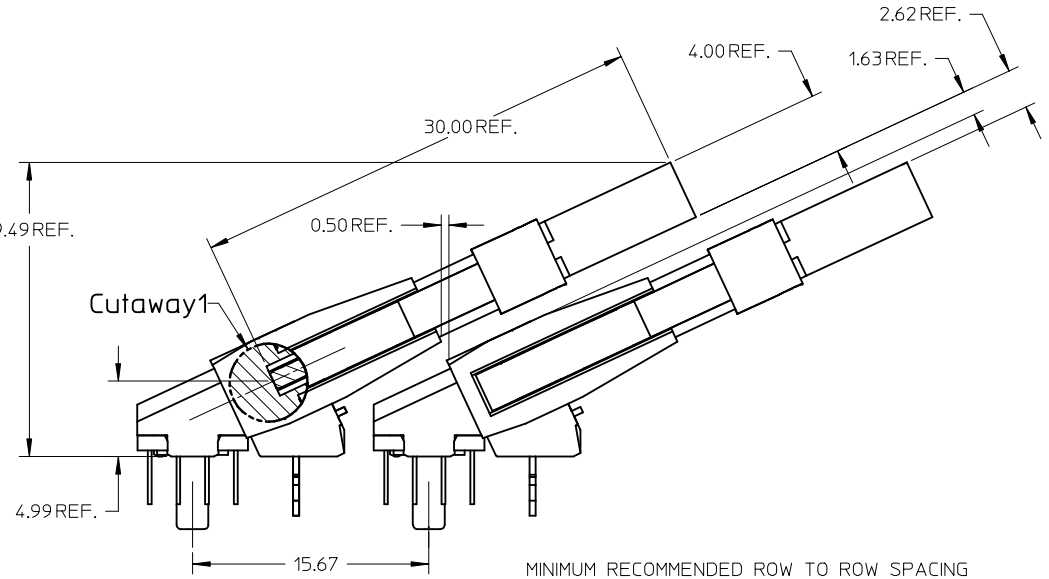
DRAWN BY: MLONG DATE: 2004/03/25
CHECKED BY: SRRAMESH DATE: 2004/03/26
APPROVED BY: GGLEE DATE: 2004/03/26

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

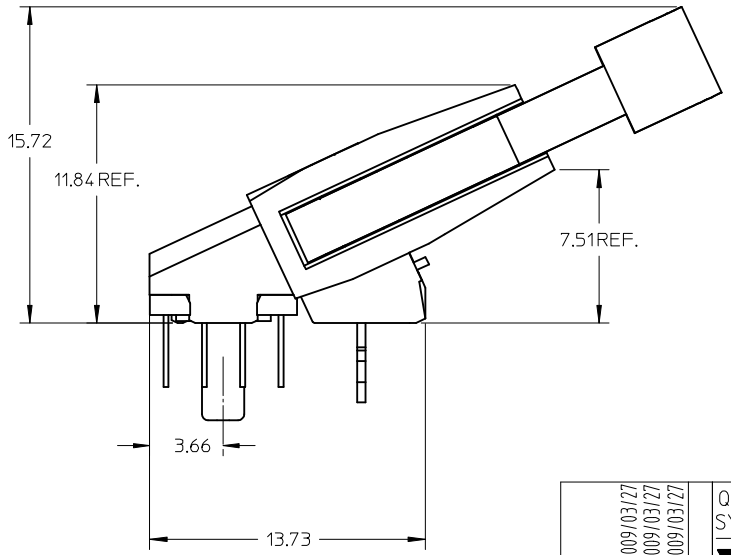
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MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87803-010
SHEET NO.: 1 OF 5
SIZE: A3

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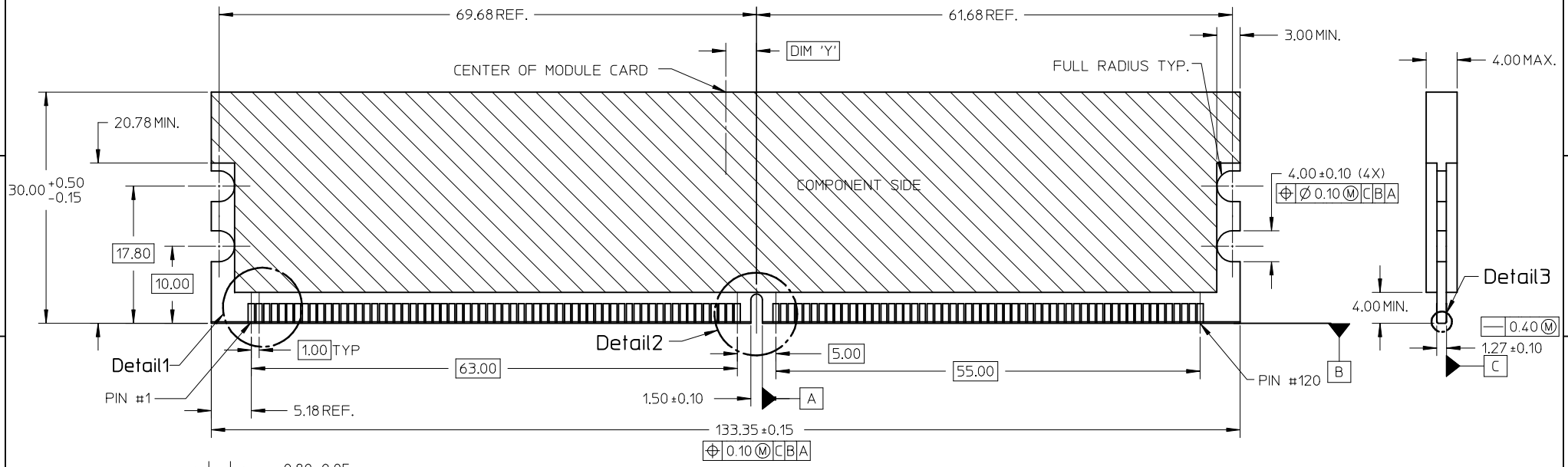
MINIMUM RECOMMENDED ROW TO ROW SPACING
WHEN USING A 4.00MM THICK
MODULE (TYPICAL TSOP PACKAGING)

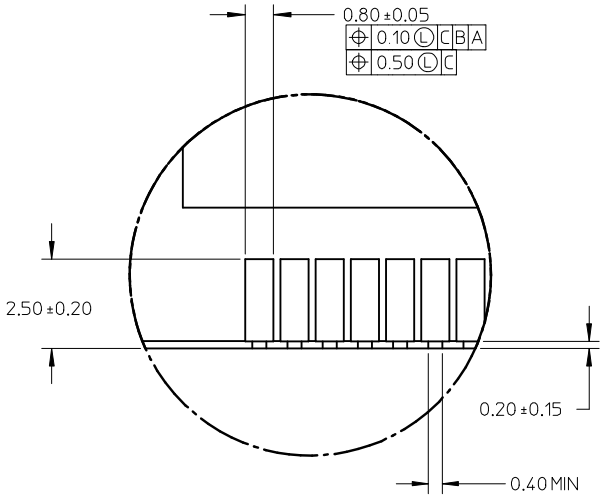


ADDED OPTION	2009/03/27	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE: MM ONLY
EC NO: S2009-0629	2009/03/27		▼=0	mm / INCH	SCALE: NTS
DRWN:CCTEH	2009/03/27		▽C=0	4 PLACES ± --- / ± ---	DESIGN UNITS: METRIC
CH'KD:CGTAN				3 PLACES ± --- / ± ---	THIRD ANGLE PROJECTION
APPR:SHLEN1				2 PLACES ± 0.25 / ± ---	
REV: B1				1 PLACE ± --- / ± ---	
				ANGULAR ± 5 °	
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DRAWN BY: MLONG	DATE: 2004/03/25	TITLE: DDR2 DIMM, 1.00MM PITCH 240 CKTS, 25 DEG.
CHECKED BY: SRRAMESH	DATE: 2004/03/26	
APPROVED BY: GGLEE	DATE: 2004/03/26	molex MOLEX INCORPORATED
MATERIAL NO.: SEE TABLE		DOCUMENT NO.: SD-87803-010
SIZE: A3		SHEET NO.: 2 OF 5

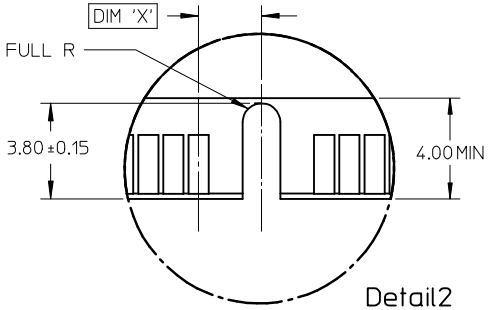
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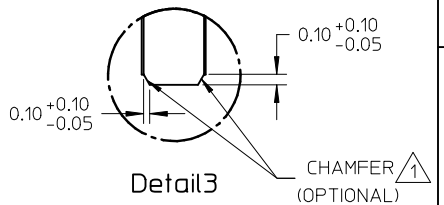


Detail1

RECOMMENDED MODULE LAYOUT



Detail2



Detail3

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
EC NO: S2009-0629
DRWN:CCTEH 2009/03/27
CHKD:CGTAN 2009/03/27
APPR:SHLEN 2009/03/27
DESCRIPTION
B1
REV

QUALITY SYMBOLS
▼=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

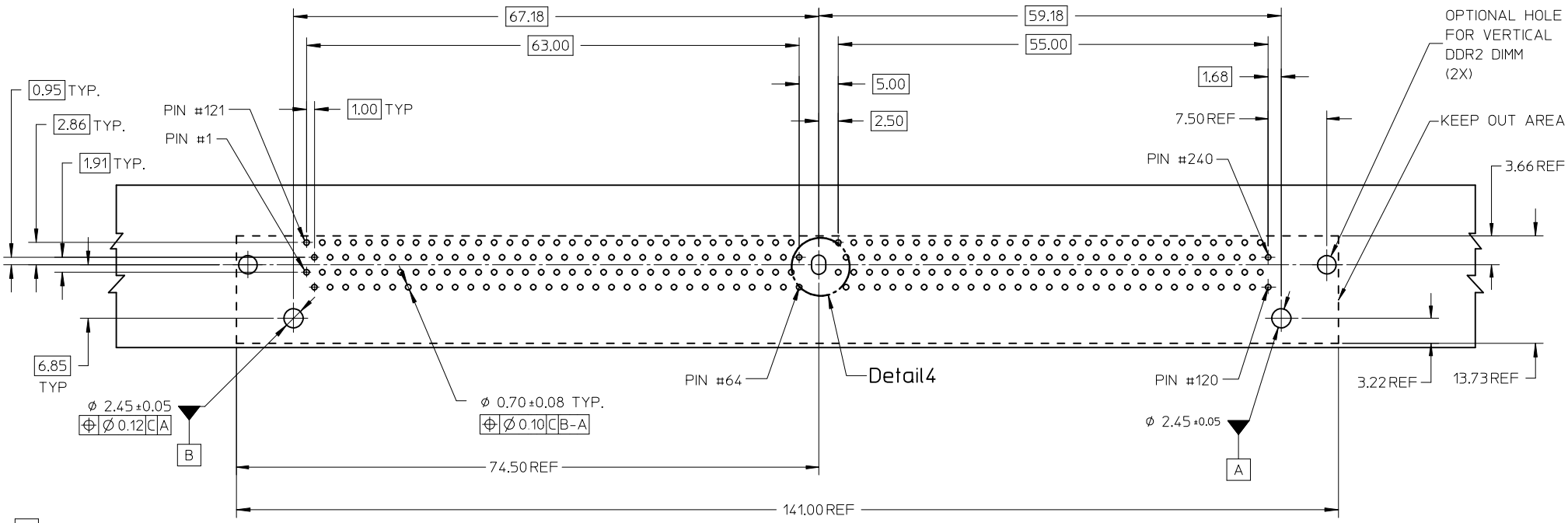
		DATE
DRAWN BY	MLONG	2004/03/25
CHECKED BY	SRRAMESH	2004/03/26
APPROVED BY	GGLEE	2004/03/26

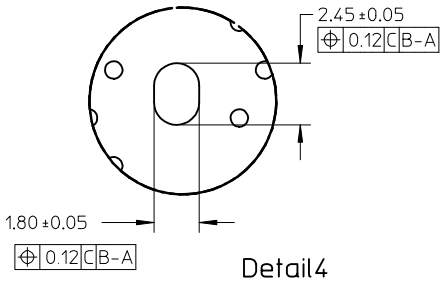
TITLE: DDR2 DIMM, 1.00MM PITCH 240 CKTS, 25 DEG.

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87803-010
SHEET NO.: 3 OF 5
SIZE: A3

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Detail4

ADDED OPTION
EC NO: S2009-0629 2009/03/27
DRWN:CCTEH 2009/03/27
CHKD:CGTAN 2009/03/27
APPR:SHLEN1 2009/03/27
DESCRIPTION
REV
B1

QUALITY SYMBOLS
▼=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

		DATE
DRAWN BY	MLONG	2004/03/25
CHECKED BY	SRRAMESH	2004/03/26
APPROVED BY	GGLEE	2004/03/26

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

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87803-010
SHEET NO.: 4 OF 5
SIZE: A3

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PART NO.	VOLTAGE KEY	DIM 'P'	DIM 'Q'	RECOMMENDED PCB THICKNESS	CONTACT AREA PLATING	SOLDERTAIL PLATING	LUBRICATION
87803-0002	1.8V	2.79	3.18	1.57	0.38uM/ 15u" GOLD OVER 1.27uM/ 50u" MIN NICKEL	2.54uM/ 100u" MIN. TIN (MATTE) OVER 1.27uM/ 50u" MIN NICKEL	NO
87803-0022							YES
87803-0012		3.18	4.83	2.36			NO
87803-0032							YES
87803-0052		4.00		3.18			NO
87803-0062							YES
87803-0102		2.79	3.18	1.57	0.76uM/ 30u" GOLD OVER 1.27uM/ 50u" MIN NICKEL		NO
87803-0122							YES
87803-0112		3.18	4.83	2.36			NO
87803-0132							YES
87803-0152		4.00		3.18			NO
87803-0162							YES

ADDED OPTION
EC NO: S2009-0629 2009/03/27
DRWN:CCTEH 2009/03/27
CH'KD:CGTAN 2009/03/27
APPR:SHLEN1 2009/03/27
DESCRIPTION
REV
B1

QUALITY SYMBOLS
▼=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: MLONG DATE: 2004/03/25
CHECKED BY: SRRAMESH DATE: 2004/03/26
APPROVED BY: GGLEE DATE: 2004/03/26

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

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87803-010
SHEET NO.: 5 OF 5
SIZE: A3

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