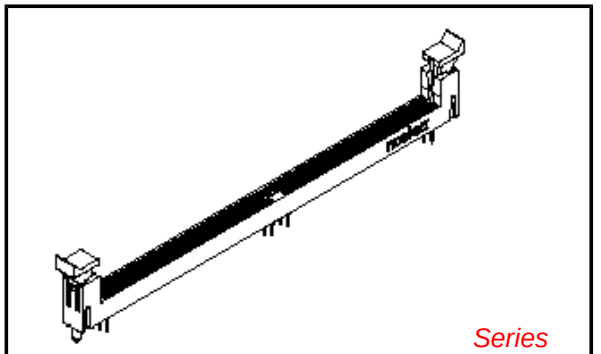
This document was generated on 04/13/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0877469011

Status: Active

Description: 1.00mm (.039") Pitch DDR-II DIMM Socket, Vertical, Press-fit, 1.8V Center Keys, 3.30mm (.130") Tail Length, Beige Latches, 240 Circuits, 0.76µm(30µ") Selective Gold(Au) Plating, Lead-free



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
RoHS Certificate of Compliance (PDF)

General

Product Family	Memory Module Sockets
Series	87746
Comments	Latches in Beige
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	Vertical (Top Entry)
Keying to Mating Part	Yes
Material - Metal	Phosphor Bronze
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
PC Tail Length (in)	0.130 In
PC Tail Length (mm)	3.30 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.140 In
PCB Thickness Recommended (mm)	3.60 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)	15
Plating min: Termination (µm)	0.38
Temperature Range - Operating	-55°C to +85°C
Termination Interface: Style	Through Hole - Compliant Pin

Electrical

Current - Maximum per Contact	0.5A
Voltage - Maximum	30V
Voltage Key	1.8V, Center

Material Info

Reference - Drawing Numbers

Sales Drawing	SD-87746-001

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

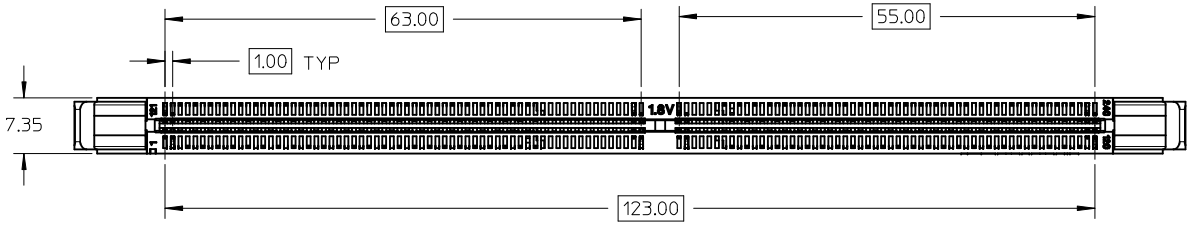
Please visit the Contact Us section for any non-product compliance questions.

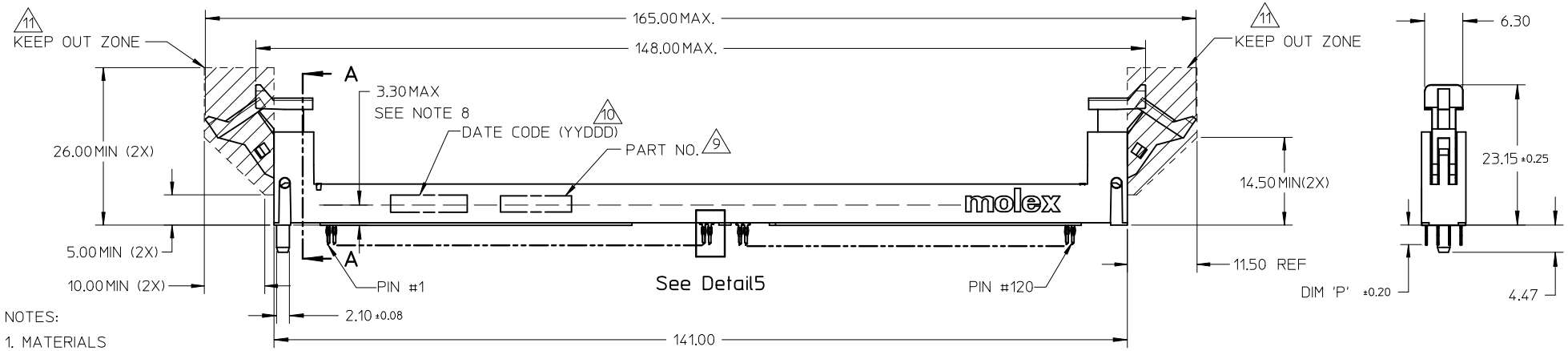
Search Parts in this Series
87746Series

Mates With
JEDEC standard 1.27mm modules

This document was generated on 04/13/2010

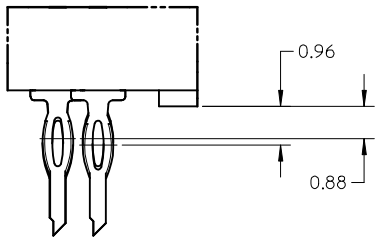
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION





NOTES:

1. MATERIALS
   HOUSING - HIGH TEMP. NYLON, GLASS-FILLED, UL 94V-0.
   LATCH - HIGH TEMP. NYLON, GLASS-FILLED, UL 94V-0 - NATURAL
   POLYSULFONE, UL 94HB - CLEAR
   (COLOUR OF THE HOUSING AND LATCHE REFER TO TABLE ON SHEET 5 & 6).
   TERMINAL - PHOSPHOR BRONZE
2. FINISHES - CONTACT AREA - SEE TABLE IN SHEET 5.
   TAIL AREA - 15uIN(0.38uM) TO 60uIN(1.52uM) MIN.
   90/10 TIN/LEAD OR TIN OVER 50uIN(1.27uM) MIN. NICKEL.
3. REFER TO PRODUCT SPEC. PS-87746-002 FOR PERFORMANCE SPECIFICATIONS.
4. PRODUCT SHALL BE PACKED IN TRAY.
5. CARD SLOT ACCEPTS 1.27±0.10 MM MODULE THICKNESS.
   (MEASURED OVER P.C. PADS)
6. RECOMMENDED MODULE LAYOUT SHALL BE AS PER JEDEC MO-237.
7. RECOMMENDED PLATING ON MODULE PADS: 30uIN(0.76uM) MIN. HARD GOLD OVER 79uIN(2uM) MIN. NICKEL.
8. DIMM MODULE SEATING PLANE FROM TOP OF PCB.
9. PART NUMBER SHALL BE MARKED LEGIBLY AS : 87746 XXXX
10. DATE CODE SHALL BE MARKED LEGIBLY AS SHOWN : YYDDD
11. KEEP OUT CROSS HATCHED ARE RESERVED FOR SOCKET EJECTORS AT BOTH ENDS.
12. KEEP OUT ZONE IS HEIGHT LIMITED PER 11.



Detail5

PART NO UPDATED
EC NO: S2009-0883 2009/05/22
DRWN:TARUMUGHAM 2009/05/22
CH'KD:CGTAN 2009/05/25
APPR:SHLENI
DESCRIPTION
REV
D8

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
1 PLACE	± ---	± ---
ANGULAR ± 5 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

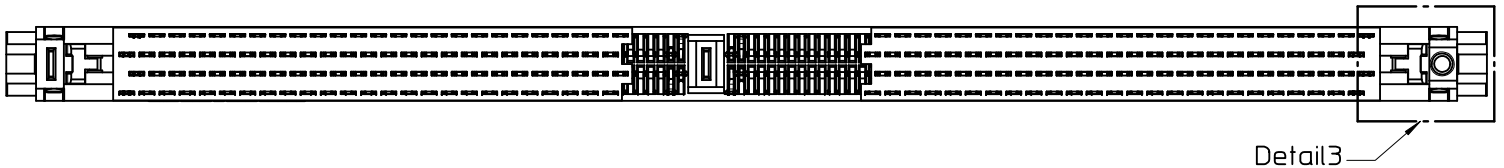
DRAWN BY: CGOH DATE: 2002/06/13
CHECKED BY: DSOH DATE: 2002/08/07
APPROVED BY: SKTOH DATE: 2002/08/08

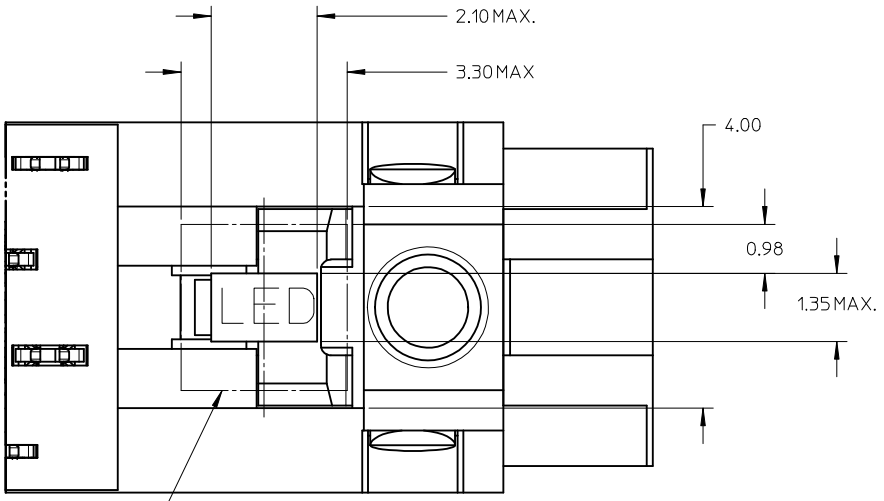
TITLE: DDR2 DIMM, 1.00MM PITCH 240 CKTS, VERT. PRESSFIT

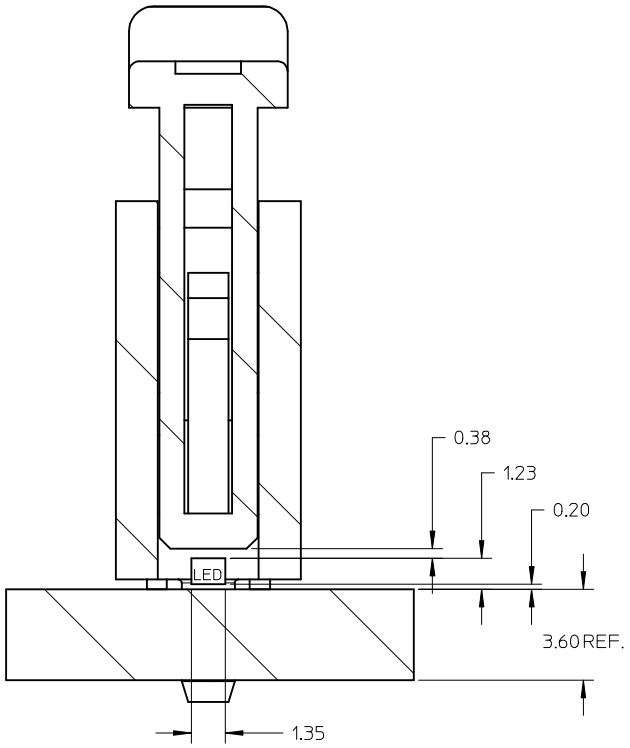
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MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87746-001
SHEET NO.: 1 OF 6
SIZE: A3

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SECTION A-A

PART NO UPDATED			
EC NO: S2009-0883	2009/05/22		
DRWN:TARUMUGHAM	2009/05/22		
CH'KD:CGTAN	2009/05/25		
APPR:SHLENI			
DESCRIPTION			
REV			
D8			

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
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: CGOH	DATE: 2002/06/13		
CHECKED BY: DSOH	DATE: 2002/08/07		
APPROVED BY: SKTOH	DATE: 2002/08/08		
MATERIAL NO.: SEE TABLE			
SIZE: A3			

TITLE: DDR2 DIMM, 1.00MM PITCH 240 CKTS, VERT. PRESSFIT

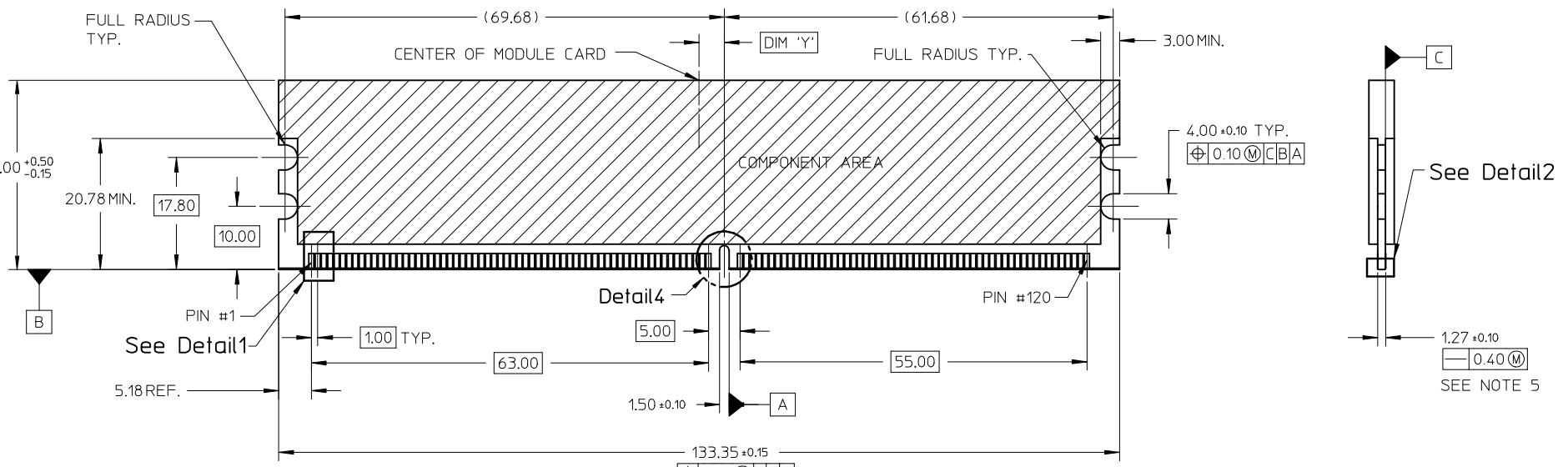
MOLEX INCORPORATED

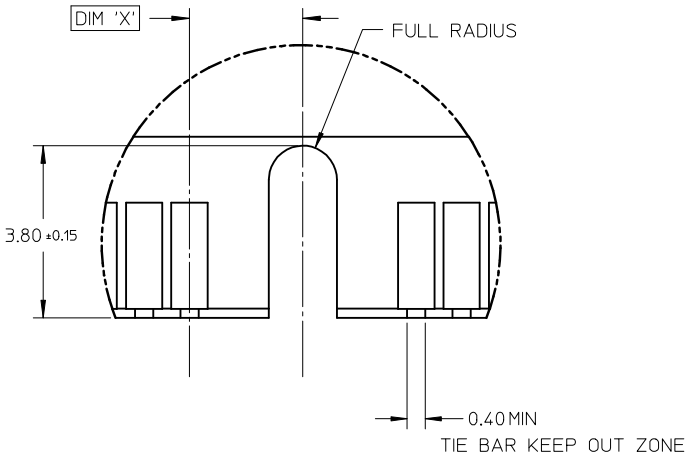
DOCUMENT NO.: SD-87746-001

SHEET NO.: 2 OF 6

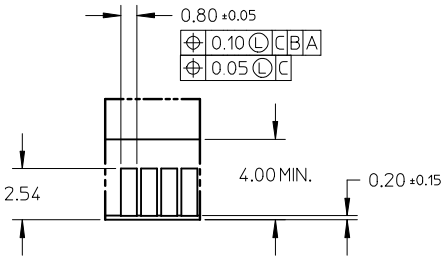
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RECOMMENDED MODULE LAYOUT

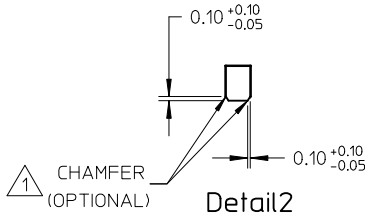




Detail4



Detail1



Detail2

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

NOTES :

1. MODULE CARD USED IN PRODUCT TESTING ARE CHAMFERED.

PART NO UPDATED
EC NO: S2009-0883 2009/05/22
DRWN:TARUMUGHAM 2009/05/22
CH'KD:CGTAN 2009/05/25
APPR:SHLENI
DESCRIPTION
REV
D8

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
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: CGOH DATE: 2002/06/13
CHECKED BY: DSOH DATE: 2002/08/07
APPROVED BY: SKTOH DATE: 2002/08/08

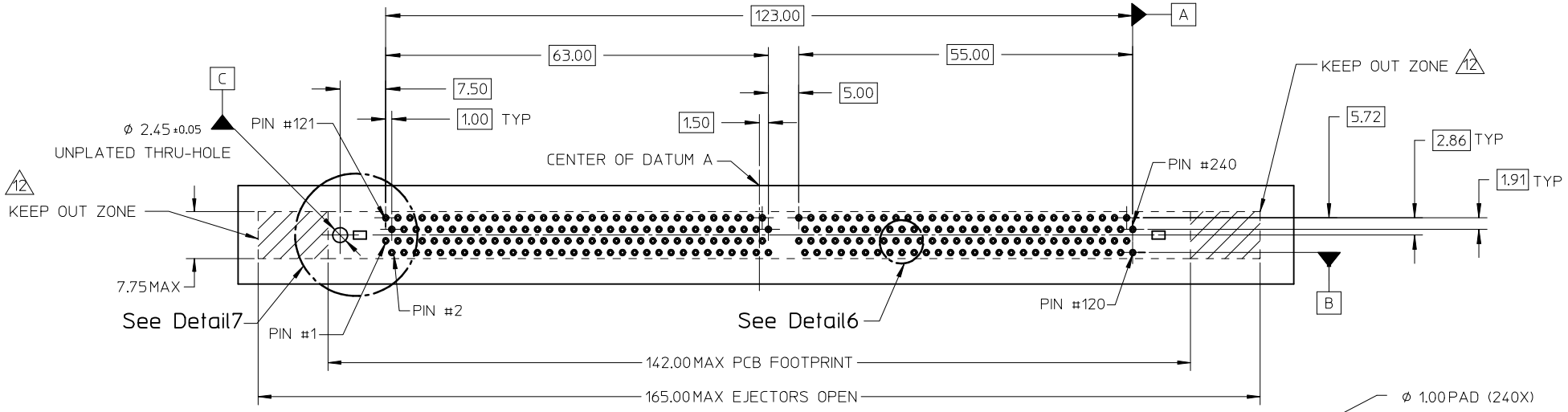
TITLE: DDR2 DIMM, 1.00MM PITCH 240 CKTS, VERT. PRESSFIT

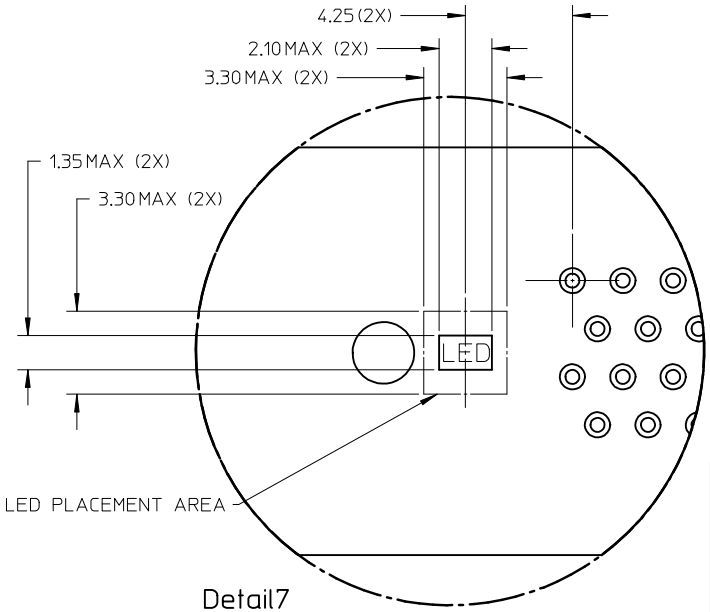
molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87746-001
SHEET NO.: 3 OF 6
SIZE: A3

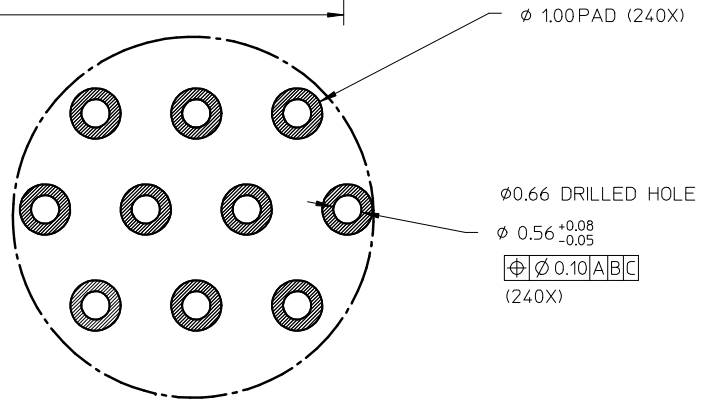
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RECOMMENDED PCB HOLE PATTERN
SEE TABLE IN SHEET 5 FOR
RECOMMENDED PCB THICKNESS





Detail7



Detail6

PART NO UPDATED
EC NO: S2009-0883
DRWN:TARUMUGHAM 2009/05/22
CH'KD:CGTAN 2009/05/22
APPR:SHLENI 2009/05/25
DESCRIPTION
REV
D8

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
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: CGOH DATE: 2002/06/13
CHECKED BY: DSOH DATE: 2002/08/07
APPROVED BY: SKTOH DATE: 2002/08/08

TITLE: DDR2 DIMM, 1.00MM PITCH
240 CKTS, VERT. PRESSFIT

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MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87746-001
SHEET NO.: 4 OF 6
SIZE: A3

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PART NO.	VOLTAGE KEY POS.	VOLTAGE KEY TEXT	TAIL LENGTH P±0.20	RECOMMENDED PCB THICKNESS	LUBRICATION	PLATING OPTION	LATCH COLOR	PLATING OPTION	HOUSING COLOR
87746-0001	CENTER	1.8V	4.20	4.57	NO	SELECTIVE GOLD 0.38uM/ 15uIN MIN. GOLD OVER 1.27uM/ 50uIN MIN. NICKEL	NATURAL (OFF WHITE)	TIN/LEAD	BLACK
87746-1001			3.30	3.60					
87746-0011	CENTER	1.8V	4.20	4.57	NO	SELECTIVE GOLD 0.76uM/ 30uIN MIN. GOLD OVER 1.27uM/ 50uIN MIN. NICKEL			
87746-1011			3.30	3.60					
87746-0091	CENTER	1.8V	4.20	4.57	YES				
87746-1091			3.30	3.60					
87746-5001	CENTER	1.8V	4.20	4.57	NO	SELECTIVE GOLD 0.38uM/ 15uIN MIN. GOLD OVER 1.27uM/ 50uIN MIN. NICKEL	CLEAR		
87746-5101			3.30	3.60					
87746-5011	CENTER	1.8V	4.20	4.57	NO	SELECTIVE GOLD 0.76uM/ 30uIN MIN. GOLD OVER 1.27uM/ 50uIN MIN. NICKEL			
87746-5111			3.30	3.60					
87746-5091	CENTER	1.8V	4.20	4.57	YES				
87746-5191			3.30	3.60					

PART NO UPDATED
EC NO: S2009-0883 2009/05/22
DRWN:TARUMUGHAM 2009/05/22
CH'KD:CGTAN 2009/05/25
APPR:SHLENI
DESCRIPTION
D8
REV

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
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: CGOH DATE: 2002/06/13
CHECKED BY: DSOH DATE: 2002/08/07
APPROVED BY: SKTOH DATE: 2002/08/08

TITLE: DDR2 DIMM, 1.00MM PITCH 240 CKTS, VERT. PRESSFIT

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87746-001
SHEET NO.: 5 OF 6
SIZE: A3

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PART NO.	VOLTAGE KEY POS.	VOLTAGE KEY TEXT	TAIL LENGTH P±0.20	RECOMMENDED PCB THICKNESS	LUBRICATION	PLATING OPTION	LATCH COLOR	PLATING OPTION	HOUSING COLOR
87746-8001	CENTER	1.8V	4.20	4.57	NO	SELECTIVE GOLD 0.38uM/ 15uIN MIN. GOLD OVER 1.27uM/ 50uIN MIN. NICKEL	NATURAL (OFF WHITE)	TIN	BLACK
87746-9001			3.30	3.60					
87746-8011	CENTER	1.8V	4.20	4.57	NO	SELECTIVE GOLD 0.76uM/ 30uIN MIN. GOLD OVER 1.27uM/ 50uIN MIN. NICKEL			
87746-9011			3.30	3.60					
87746-8091	CENTER	1.8V	4.20	4.57	YES				
87746-9091			3.30	3.60					
87746-5201	CENTER	1.8V	4.20	4.57	NO	SELECTIVE GOLD 0.38uM/ 15uIN MIN. GOLD OVER 1.27uM/ 50uIN MIN. NICKEL	CLEAR		
87746-5301			3.30	3.60					
87746-5211	CENTER	1.8V	4.20	4.57	NO	SELECTIVE GOLD 0.76uM/ 30uIN MIN. GOLD OVER 1.27uM/ 50uIN MIN. NICKEL			
87746-5311			3.30	3.60					
87746-5291	CENTER	1.8V	4.20	4.57	YES				
87746-5391			3.30	3.60					
87746-5381			3.30	3.60					BLUE

PART NO UPDATED
EC NO: S2009-0883 2009/05/22
DRWN:TARUMUGHAM 2009/05/22
CH'KD:CGTAN 2009/05/25
APPR:SHLENI
DESCRIPTION
REV
D8

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± 0.20	± ---
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: CGOH DATE: 2002/06/13
CHECKED BY: DSOH DATE: 2002/08/07
APPROVED BY: SKTOH DATE: 2002/08/08

TITLE: DDR2 DIMM, 1.00MM PITCH 240 CKTS, VERT. PRESSFIT

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SD-87746-001
SHEET NO.: 6 OF 6
SIZE: A3

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