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Part Number: [0780658001](#)
Status: **Active**
Description: 1.00mm (.039") Pitch DDR2 DIMM Socket, Very Low Profile, Vertical, Press-fit, 1.8V Center Keys, 3.30mm (.130") Tail Length, Black Latches, 240 Circuits, 0.76µm (30µm) Gold(Au) Plating, Lead-free

Documents:
[3D Model](#) [Product Specification PS-78065-001 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980
UL E29179

General

Product Family Memory Module Sockets
Series [78065](#)
Comments Latches in Black Color
Component Type Memory Module
JEDEC Outline MO-237
Product Name DDR2 DIMM

Physical

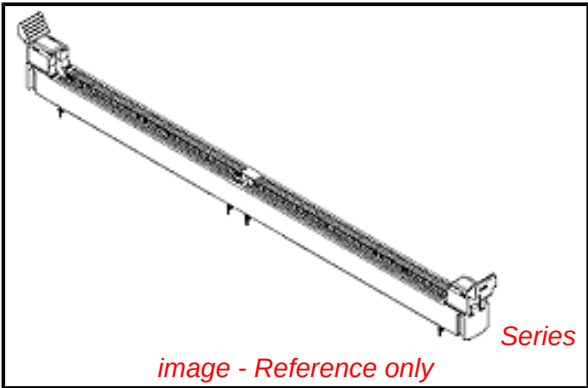
Circuits (Loaded) 240
Color - Resin Black
Durability (mating cycles max) 25
Entry Angle Vertical (Top Entry)
Flammability 94V-0
Keying to Mating Part Yes
Material - Metal Phosphor Bronze
Material - Plating Mating Gold
Material - Plating Termination Tin
Material - Resin High Temperature Thermoplastic
PC Tail Length (in) 0.130 In
PC Tail Length (mm) 3.30 mm
PCB Locator No
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) 15.2
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



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](#)

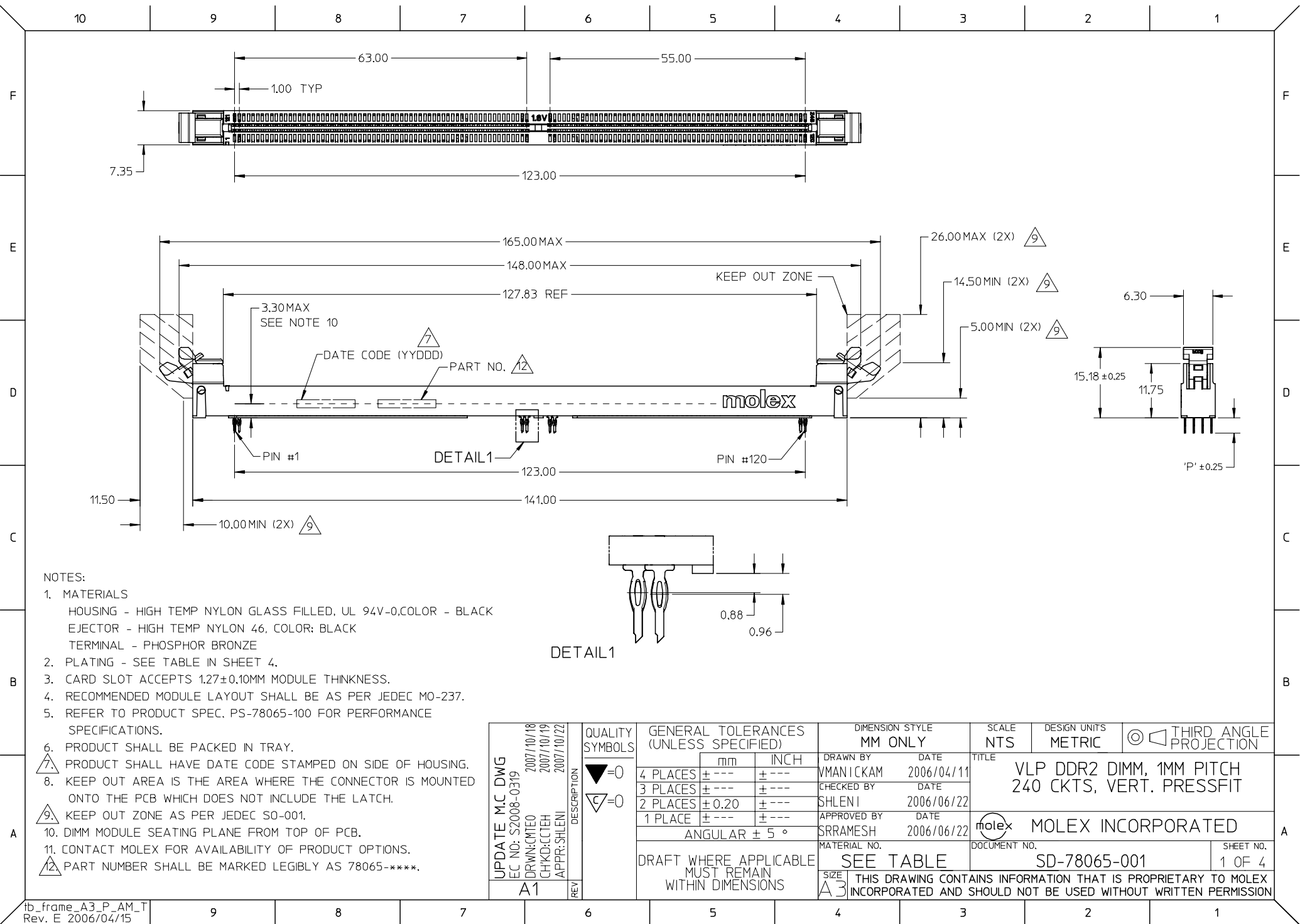
Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series
[78065Series](#)

Mates With
JEDEC MO-237 modules

This document was generated on 04/13/2010

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NOTES:

1. MATERIALS

HOUSING - HIGH TEMP NYLON GLASS FILLED, UL 94V-0,COLOR - BLACK

EJECTOR - HIGH TEMP NYLON 46, COLOR: BLACK

TERMINAL - PHOSPHOR BRONZE

2. PLATING - SEE TABLE IN SHEET 4.

3. CARD SLOT ACCEPTS 1.27±0.10MM MODULE THICKNESS.

4. RECOMMENDED MODULE LAYOUT SHALL BE AS PER JEDEC MO-237.

5. REFER TO PRODUCT SPEC, PS-78065-100 FOR PERFORMANCE SPECIFICATIONS.

6. PRODUCT SHALL BE PACKED IN TRAY.

△ PRODUCT SHALL HAVE DATE CODE STAMPED ON SIDE OF HOUSING.
8. 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.

10. DIMM MODULE SEATING PLANE FROM TOP OF PCB.

11. CONTACT MOLEX FOR AVAILABILITY OF PRODUCT OPTIONS.

△ PART NUMBER SHALL BE MARKED LEGIBLY AS 78065-****.

DETAIL1

UPDATE M.C DWG EC NO: S2008-0319 DRWN:CMTEO CHKD:CCTH APPR:SHLENI A1	2007/10/18 2007/10/19 2007/10/22	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	TITLE VLP DDR2 DIMM, 1MM PITCH 240 CKTS, VERT. PRESSFIT	
					mm	INCH	DRAWN BY VMANICKAM	DATE 2006/04/11	MOLEX MOLEX INCORPORATED			
				4 PLACES	± ---	± ---	CHECKED BY SHLENI	DATE 2006/06/22				
				3 PLACES	± ---	± ---	APPROVED BY SRRAMESH	DATE 2006/06/22				
				2 PLACES	± 0.20	± ---	DOCUMENT NO. SD-78065-001					
1 PLACE		± ---	± ---	ANGULAR ± 5 °		MATERIAL NO.		SHEET NO. 1 OF 4				
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						

10 9 8 7 6 5 4 3 2 1

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D

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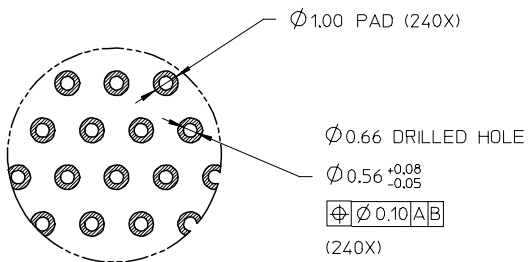
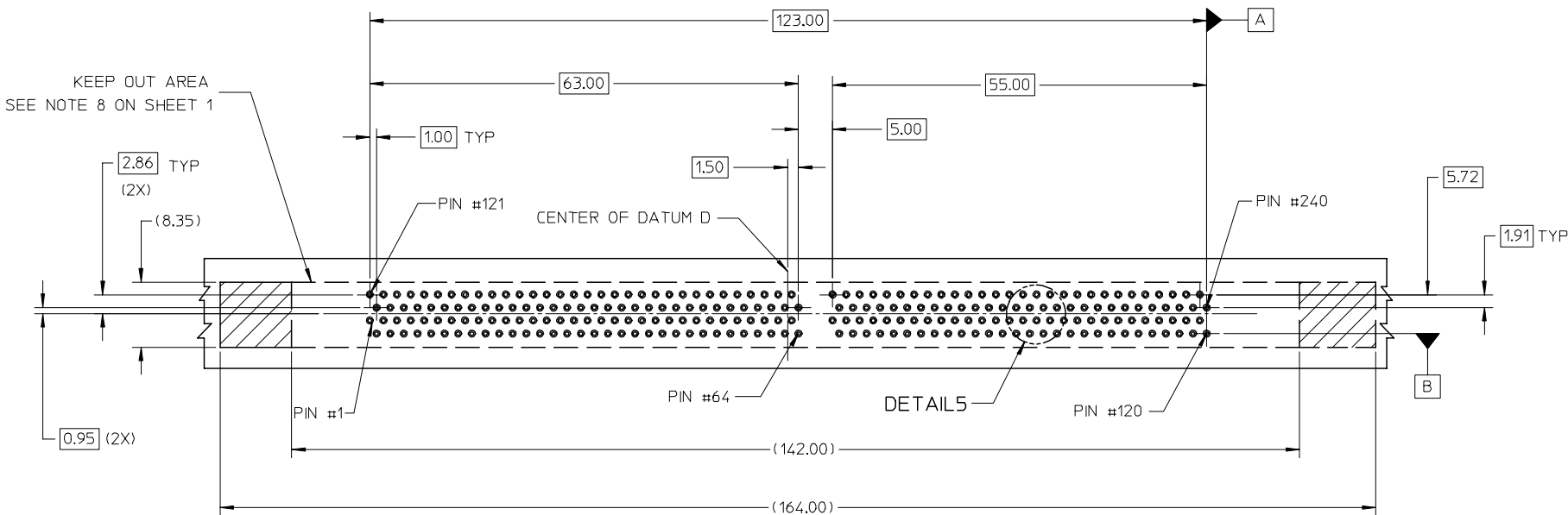
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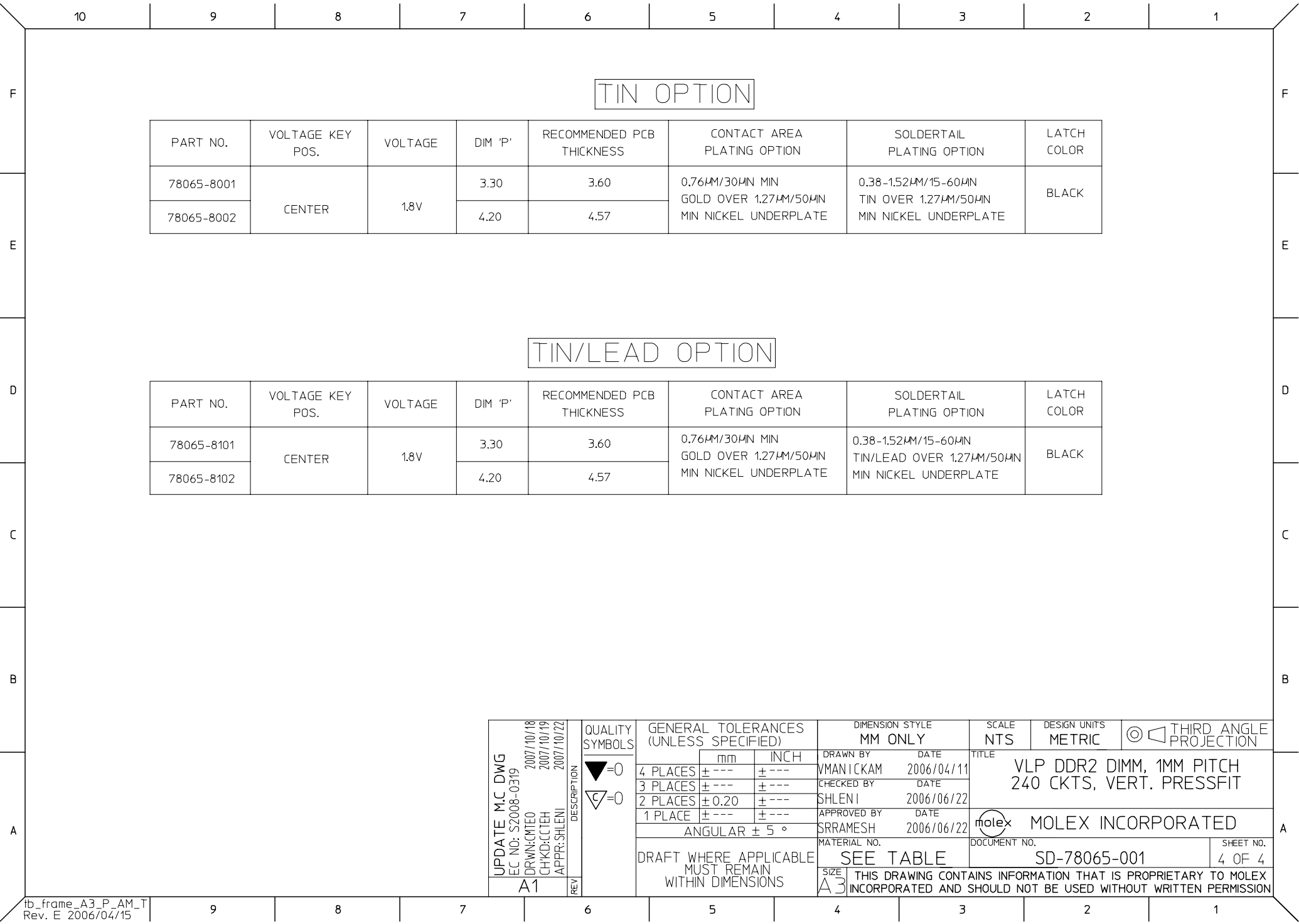
(SEE RECOMMENDED THICKNESS IN TABLE)
RECOMMEND PCB LAYOUT
CONNECTOR SIDE



DETAIL5

UPDATE M.C DWG EC NO: S2008-0319 DRWN:CMTEO 2007/10/18 CHKD:CCTEH 2007/10/19 APPR:SHLENI 2007/10/22 A1			DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
				▽=0									
				▽C=0									
				4 PLACES ± --- ± ---		DRAWN BY DATE VMANICKAM 2006/04/11		TITLE VLP DDR2 DIMM, 1MM PITCH 240 CKTS, VERT. PRESSFIT					
				3 PLACES ± --- ± ---		CHECKED BY DATE SHLENI 2006/06/22							
				2 PLACES ± 0.20 ± ---		APPROVED BY DATE SRRAMESH 2006/06/22							
				1 PLACE ± --- ± ---				MOLEX MOLEX INCORPORATED					
ANGULAR ± 5 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3		SEE TABLE				SD-78065-001		3 OF 4			
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



TIN OPTION

PART NO.	VOLTAGE KEY POS.	VOLTAGE	DIM 'P'	RECOMMENDED PCB THICKNESS	CONTACT AREA PLATING OPTION	SOLDERTAIL PLATING OPTION	LATCH COLOR
78065-8001	CENTER	1.8V	3.30	3.60	0.76µM/30µIN MIN GOLD OVER 1.27µM/50µIN MIN NICKEL UNDERPLATE	0.38-1.52µM/15-60µIN TIN OVER 1.27µM/50µIN MIN NICKEL UNDERPLATE	BLACK
78065-8002			4.20	4.57			

TIN/LEAD OPTION

PART NO.	VOLTAGE KEY POS.	VOLTAGE	DIM 'P'	RECOMMENDED PCB THICKNESS	CONTACT AREA PLATING OPTION	SOLDERTAIL PLATING OPTION	LATCH COLOR
78065-8101	CENTER	1.8V	3.30	3.60	0.76µM/30µIN MIN GOLD OVER 1.27µM/50µIN MIN NICKEL UNDERPLATE	0.38-1.52µM/15-60µIN TIN/LEAD OVER 1.27µM/50µIN MIN NICKEL UNDERPLATE	BLACK
78065-8102			4.20	4.57			

UPDATE M.C DWG EC NO: S2008-0319 DRWN:CMTEO 2007/10/18 CHKD:CCTEH 2007/10/19 APPR:SHLENI 2007/10/22 A1	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
		▽=0 ▽C=0		mm	INCH	DRAWN BY	DATE	TITLE VLP DDR2 DIMM, 1MM PITCH 240 CKTS, VERT. PRESSFIT			
			4 PLACES	± ---	± ---	VMANICKAM	2006/04/11				
			3 PLACES	± ---	± ---	CHECKED BY	DATE				
			2 PLACES	± 0.20		SHLENI	2006/06/22				
			1 PLACE	± ---	± ---	APPROVED BY	DATE				
		ANGULAR ± 5 °		SRRAMESH	2006/06/22	MOLEX MOLEX INCORPORATED		SHEET NO. 4 OF 4			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO. SD-78065-001							
		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							