

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0877468001](#)
Status: **Active**
Description: 1.00mm (.039") Pitch DDR-II DIMM Socket, Vertical, Press-fit, 1.8V Center Keys, 4.20mm (.165") Tail Length, Beige Latches, 240 Circuits, 0.38µm(15µ") Selective Gold(Au) Plating, Lead-free

Documents:

[3D Model](#) [Product Specification PS-87746-002 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

General

Product Family Memory Module Sockets
Series [87746](#)
Comments 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 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) 0.165 In
PC Tail Length (mm) 4.20 mm
PCB Locator Yes
PCB Retention Yes
PCB Thickness Recommended (in) 0.180 In
PCB Thickness Recommended (mm) 4.60 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) 15
Plating min: Termination (µm) 0.38
Temperature Range - Operating -55°C to +85°C
Termination Interface: Style Through Hole - Compliant Pin

Electrical

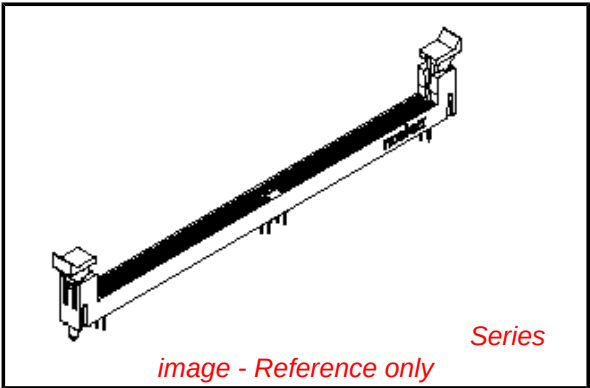
Current - Maximum per Contact 0.5A
Voltage - Maximum 30V
Voltage Key 1.8V, Center

Material Info

Old Part Number 87746-0001

Reference - Drawing Numbers

Product Specification PS-87746-002
Sales Drawing SD-87746-001



EU RoHS

**ELV and RoHS
Compliant**
**REACH SVHC
Contains SVHC: No
Halogen-Free
Status**

China RoHS



**Need more information on product
environmental compliance?**

Email productcompliance@molex.com
For a multiple part number RoHS Certificate of
Compliance, [click here](#)

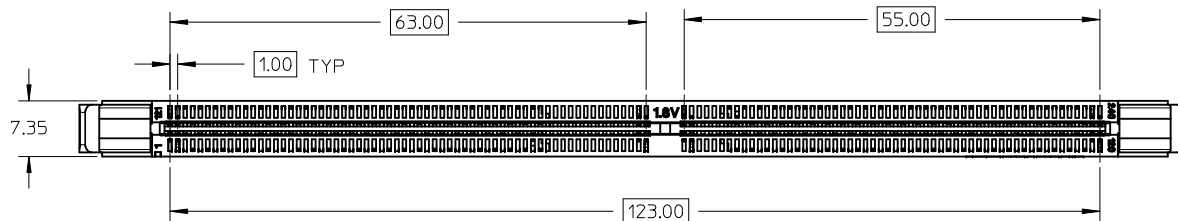
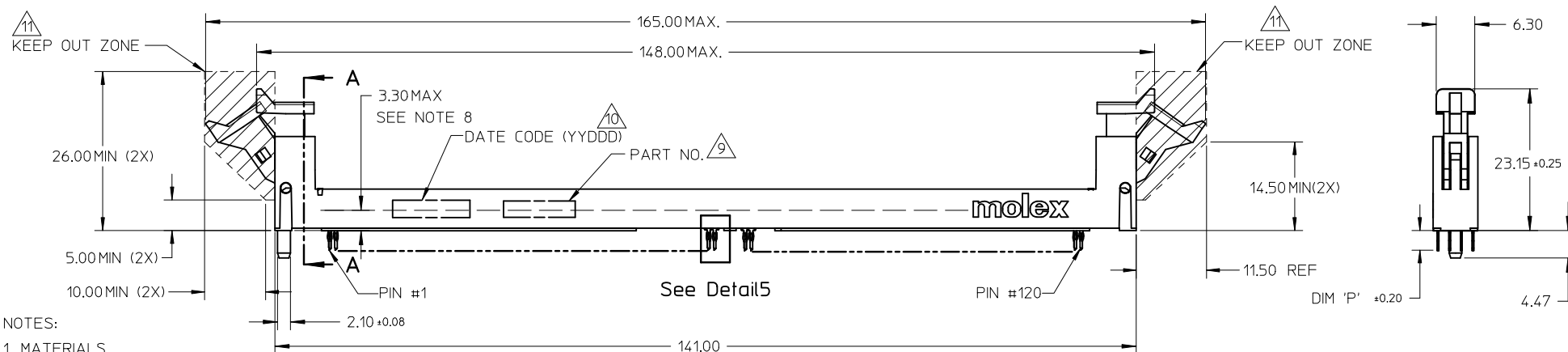
Please visit the [Contact Us](#) section for any
non-product compliance questions.

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 LATCHES REFER TO TABLE ON SHEET 5 & 6).
 TERMINAL - PHOSPHOR BRONZE

2. FINISHES - CONTACT AREA - SEE TABLE IN SHEET 5.

TAIL AREA - 15µIN(0.38µM) TO 60µIN(1.52µM) MIN.
 90/10 TIN/LEAD OR TIN OVER 50µIN(1.27µM) 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: 30µIN(0.76µM) MIN. HARD GOLD OVER 79µIN(2µM) MIN. NICKEL.

8. DIMM MODULE SEATING PLANE FROM TOP OF PCB.

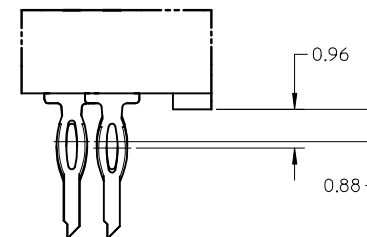
9. PART NUMBER SHALL BE MARKED LEGIBLY AS : 87746 XXXX

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 DRWN: TARUUGHAM CHYKD: CGTAN APPR: SLENI	2009/05/22 2009/05/22 2009/05/25	DESCRIPTION	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
					mm	INCH	DRAWN BY CGOH	DATE 2002/06/13	TITLE DDR2 DIMM, 100MM PITCH 240 CKTS, VERT. PRESSFIT			
				4 PLACES	± ---	± ---	CHECKED BY DSOH	DATE 2002/08/07				
				3 PLACES	± ---	± ---	APPROVED BY DATE SKTOH 2002/08/08		MOLEX INCORPORATED			
				2 PLACES	± 0.20	± ---						
				1 PLACE	± ---	± ---	MATERIAL NO.		DOCUMENT NO.	SHEET NO.		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-87746-001		1 OF 6					
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

F

F

E

E

D

D

C

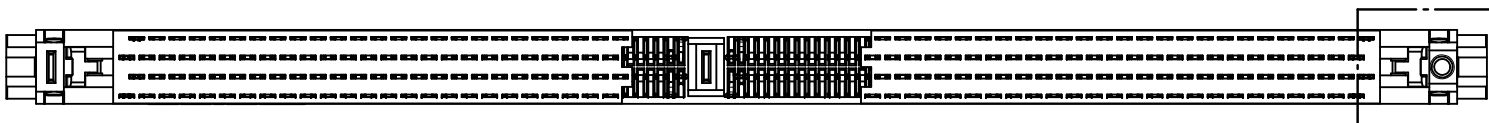
C

B

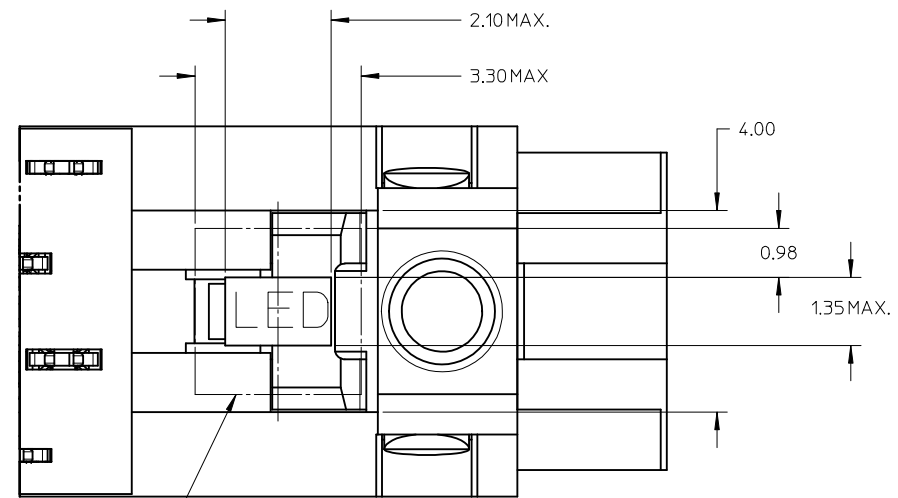
B

A

A

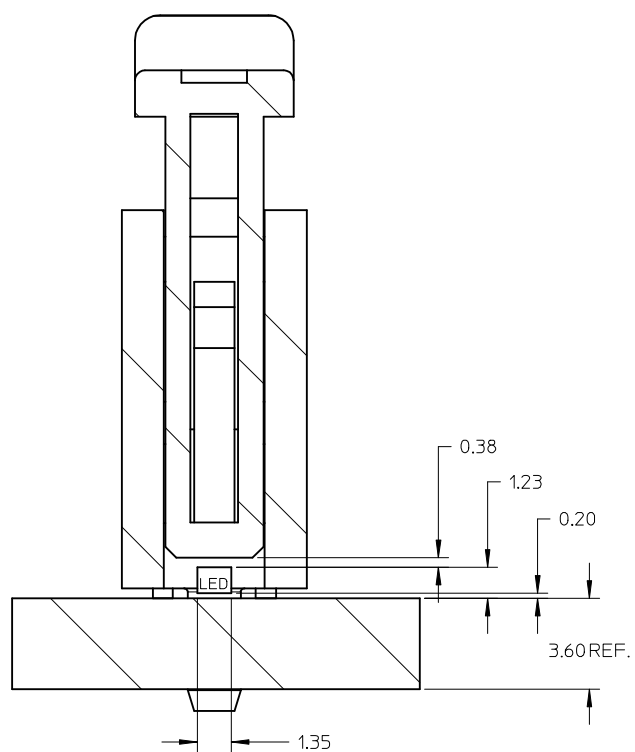


Detail3



LED PLACEMENT AREA

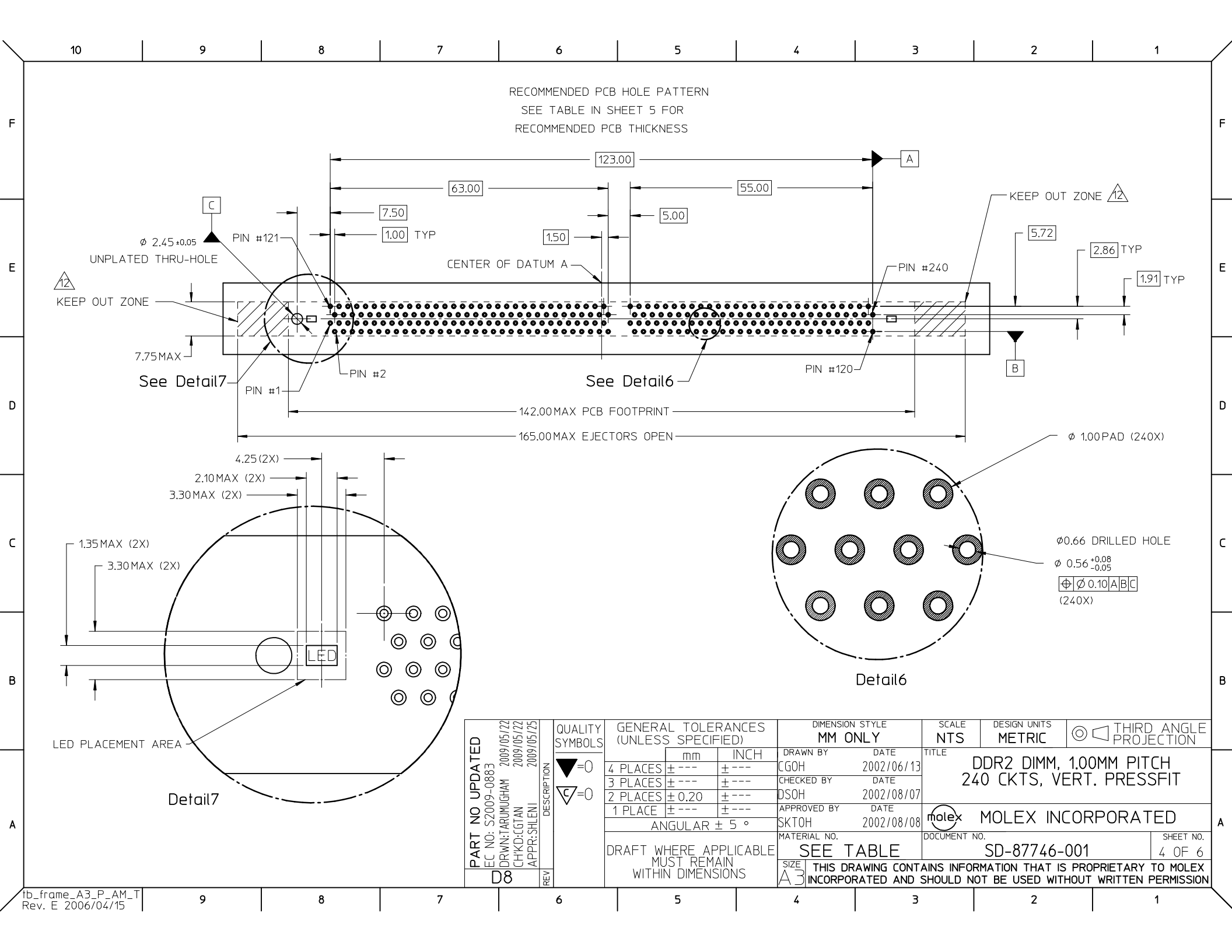
Detail3



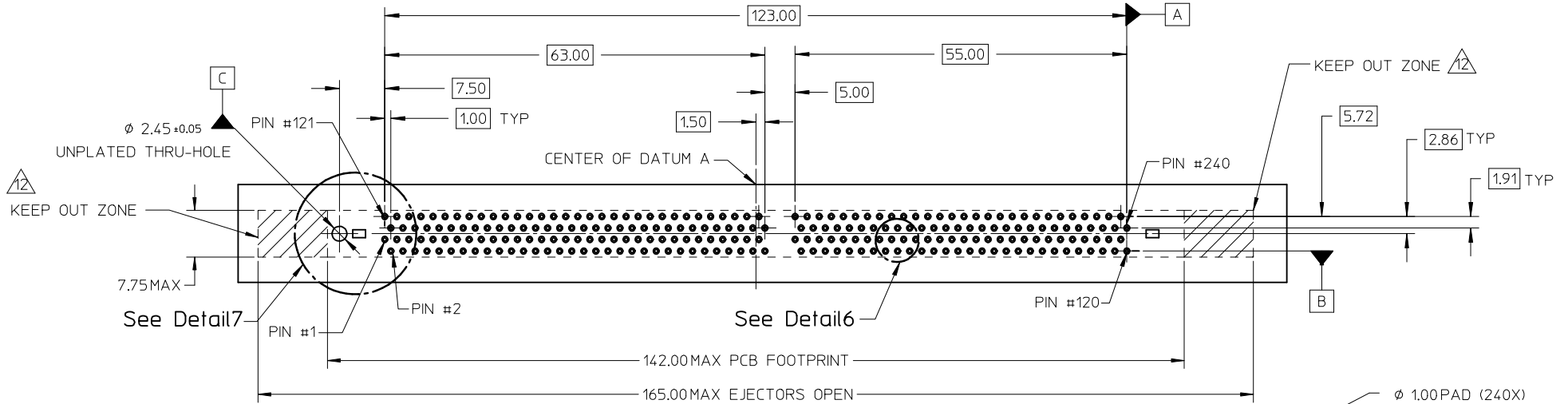
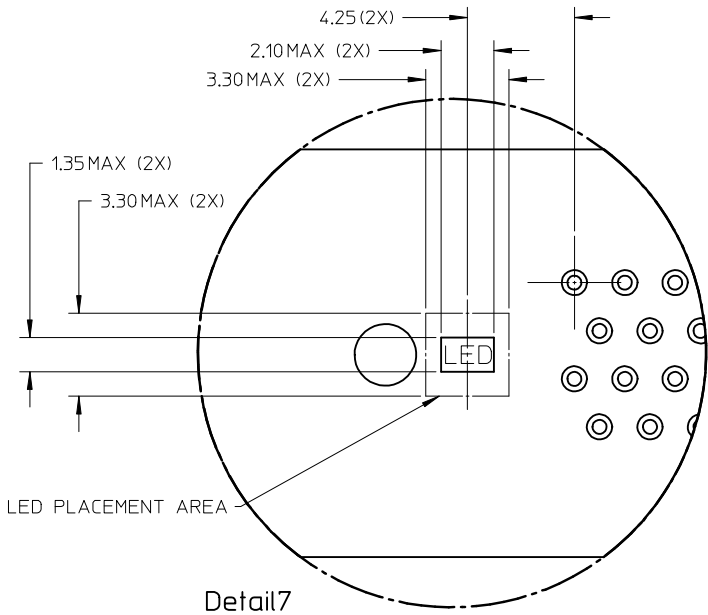
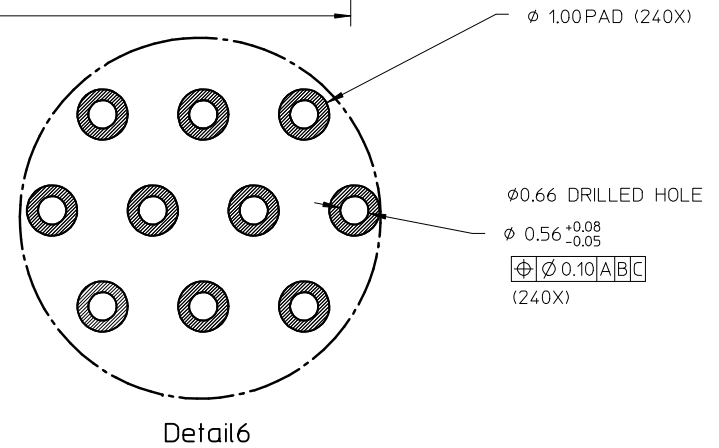
SECTION A-A

PART NO UPDATED EC NO: S2009-0883 DRWN: TARUMUGHAM CHKD: CGTAN APPR: SILENI	DESCRIPTION REV D8	QUALITY SYMBOLS <div>▽=0</div> <div>▽=0</div>	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY CGOH	DATE 2002/06/13	TITLE DDR2 DIMM, 1.00MM PITCH 240 CKTS, VERT. PRESSFIT				
			4 PLACES	± ---	± ---	CHECKED BY DSOH	DATE 2002/08/07					
			3 PLACES	± ---	± ---	APPROVED BY SKTOH	DATE 2002/08/08					
			2 PLACES	± 0.20	± ---	MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87746-001		SHEET NO. 2 OF 6		
			1 PLACE	± ---	± ---							
			ANGULAR ± 5 °			MOLEX INCORPORATED						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			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 PCB HOLE PATTERN
SEE TABLE IN SHEET 5 FOR
RECOMMENDED PCB THICKNESS



PART NO UPDATED EC NO: S2009-0883 DRWN: TARUMUGHAM CHKD: CGTAN APPR: SILENI REV D8	DESCRIPTION	QUALITY SYMBOLS <div>▽=0</div> <div>▽=0</div>	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
					DRAWN BY CGOH	DATE 2002/06/13	TITLE DDR2 DIMM, 100MM PITCH 240 CKTS, VERT. PRESSFIT				
					CHECKED BY DSOH	DATE 2002/08/07					
					APPROVED BY SKTOH	DATE 2002/08/08					
			ANGULAR ± 5 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87746-001		4 OF 6		
					SIZE A3	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																																																																													
F	<table><tr><td>PART NO.</td><td>VOLTAGE KEY POS.</td><td>VOLTAGE KEY TEXT</td><td>TAIL LENGTH P±0.20</td><td>RECOMMENDED PCB THICKNESS</td><td>LUBRICATION</td><td>PLATING OPTION</td><td>LATCH COLOR</td><td>PLATING OPTION</td><td>HOUSING COLOR</td></tr><tr><td>87746-0001</td><td rowspan="2">CENTER</td><td rowspan="2">1.8V</td><td>4.20</td><td>4.57</td><td rowspan="2">NO</td><td rowspan="2">SELECTIVE GOLD 0.38uM/ 15uIN MIN. GOLD OVER 1.27uM/ 50uIN MIN. NICKEL</td><td rowspan="6">NATURAL (OFF WHITE)</td><td rowspan="17">TIN/LEAD</td><td rowspan="26">BLACK</td></tr><tr><td>87746-1001</td><td>3.30</td><td>3.60</td></tr><tr><td>87746-0011</td><td rowspan="2">CENTER</td><td rowspan="2">1.8V</td><td>4.20</td><td>4.57</td><td rowspan="2">NO</td><td rowspan="4">SELECTIVE GOLD 0.76uM/ 30uIN MIN. GOLD OVER 1.27uM/ 50uIN MIN. NICKEL</td></tr><tr><td>87746-1011</td><td>3.30</td><td>3.60</td></tr><tr><td>87746-0091</td><td rowspan="2">CENTER</td><td rowspan="2">1.8V</td><td>4.20</td><td>4.57</td><td rowspan="2">YES</td></tr><tr><td>87746-1091</td><td>3.30</td><td>3.60</td></tr><tr><td>87746-5001</td><td rowspan="2">CENTER</td><td rowspan="2">1.8V</td><td>4.20</td><td>4.57</td><td rowspan="2">NO</td><td rowspan="2">SELECTIVE GOLD 0.38uM/ 15uIN MIN. GOLD OVER 1.27uM/ 50uIN MIN. NICKEL</td></tr><tr><td>87746-5101</td><td>3.30</td><td>3.60</td></tr><tr><td>87746-5011</td><td rowspan="2">CENTER</td><td rowspan="2">1.8V</td><td>4.20</td><td>4.57</td><td rowspan="2">NO</td><td rowspan="4">SELECTIVE GOLD 0.76uM/ 30uIN MIN. GOLD OVER 1.27uM/ 50uIN MIN. NICKEL</td></tr><tr><td>87746-5111</td><td>3.30</td><td>3.60</td></tr><tr><td>87746-5091</td><td rowspan="2">CENTER</td><td rowspan="2">1.8V</td><td>4.20</td><td>4.57</td><td rowspan="2">YES</td></tr><tr><td>87746-5191</td><td>3.30</td><td>3.60</td></tr></table>										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	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	F					
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																																																																																	
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																																																																																			
E											E																																																																												
D											D																																																																												
C											C																																																																												
B											B																																																																												
A	<table><tr><td rowspan="10">PART NO UPDATED EC NO: S2009-0883 DRWN: TARUMUGHAM 2009/05/22 CHKD: CGTAN 2009/05/22 APPR: SHLENI 2009/05/25</td><td rowspan="10">DESCRIPTION REV</td><td rowspan="10">QUALITY SYMBOLS ▽=0 ◻=0</td><td colspan="2">GENERAL TOLERANCES (UNLESS SPECIFIED)</td><td colspan="2">DIMENSION STYLE MM ONLY</td><td>SCALE NTS</td><td>DESIGN UNITS METRIC</td><td colspan="2">THIRD ANGLE PROJECTION</td></tr><tr><td></td><td></td><td>DRAWN BY CGOH</td><td>DATE 2002/06/13</td><td colspan="4" rowspan="2">TITLE DDR2 DIMM, 1.00MM PITCH 240 CKTS, VERT. PRESSFIT</td></tr><tr><td>4 PLACES</td><td>± --- ± ---</td><td>CHECKED BY DSOH</td><td>DATE 2002/08/07</td></tr><tr><td>3 PLACES</td><td>± --- ± ---</td><td>APPROVED BY SKTOH</td><td>DATE 2002/08/08</td><td colspan="4" rowspan="2">MOLEX INCORPORATED</td></tr><tr><td>2 PLACES</td><td>± 0.20 ± ---</td><td>MATERIAL NO.</td><td></td></tr><tr><td>1 PLACE</td><td>± --- ± ---</td><td colspan="2">SEE TABLE</td><td colspan="4" rowspan="2">SD-87746-001</td></tr><tr><td colspan="3">ANGULAR ± 5 °</td><td colspan="4">DOCUMENT NO.</td></tr><tr><td colspan="3">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td colspan="2">SHEET NO. 5 OF 6</td><td colspan="4" rowspan="2"></td></tr><tr><td colspan="3"></td><td colspan="2"></td></tr><tr><td colspan="3"></td><td colspan="7">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td></tr></table>										PART NO UPDATED EC NO: S2009-0883 DRWN: TARUMUGHAM 2009/05/22 CHKD: CGTAN 2009/05/22 APPR: SHLENI 2009/05/25	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				DRAWN BY CGOH	DATE 2002/06/13	TITLE DDR2 DIMM, 1.00MM PITCH 240 CKTS, VERT. PRESSFIT					4 PLACES	± --- ± ---	CHECKED BY DSOH	DATE 2002/08/07	3 PLACES	± --- ± ---	APPROVED BY SKTOH	DATE 2002/08/08	MOLEX INCORPORATED				2 PLACES	± 0.20 ± ---	MATERIAL NO.		1 PLACE	± --- ± ---	SEE TABLE		SD-87746-001				ANGULAR ± 5 °			DOCUMENT NO.				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SHEET NO. 5 OF 6														THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							A	
PART NO UPDATED EC NO: S2009-0883 DRWN: TARUMUGHAM 2009/05/22 CHKD: CGTAN 2009/05/22 APPR: SHLENI 2009/05/25	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC		THIRD ANGLE PROJECTION																																																																													
					DRAWN BY CGOH	DATE 2002/06/13	TITLE DDR2 DIMM, 1.00MM PITCH 240 CKTS, VERT. PRESSFIT																																																																																
			4 PLACES	± --- ± ---	CHECKED BY DSOH	DATE 2002/08/07																																																																																	
			3 PLACES	± --- ± ---	APPROVED BY SKTOH	DATE 2002/08/08	MOLEX INCORPORATED																																																																																
			2 PLACES	± 0.20 ± ---	MATERIAL NO.																																																																																		
			1 PLACE	± --- ± ---	SEE TABLE		SD-87746-001																																																																																
			ANGULAR ± 5 °			DOCUMENT NO.																																																																																	
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SHEET NO. 5 OF 6																																																																																	
						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																																																																													

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
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						

PART NO UPDATED EC NO: S2009-0883 DRWN: TARUMUGHAM CHKD: CGTAN APPR: SHLENI	2009/05/22 2009/05/22 2009/05/25	DESCRIPTION D8	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION																											
	<table><tr><td></td><td>mm</td><td>INCH</td></tr><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>± 0.20</td><td>± ---</td></tr><tr><td>1 PLACE</td><td>± ---</td><td>± ---</td></tr></table>				mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.20	± ---	1 PLACE	± ---	± ---	<table><tr><td>DRAWN BY</td><td>DATE</td></tr><tr><td>CGOH</td><td>2002/06/13</td></tr><tr><td>CHECKED BY</td><td>DATE</td></tr><tr><td>DSOH</td><td>2002/08/07</td></tr><tr><td>APPROVED BY</td><td>DATE</td></tr><tr><td>SKTOH</td><td>2002/08/08</td></tr></table>		DRAWN BY	DATE	CGOH	2002/06/13	CHECKED BY	DATE	DSOH	2002/08/07	APPROVED BY	DATE	SKTOH	2002/08/08	TITLE DDR2 DIMM, 1.00MM PITCH 240 CKTS, VERT. PRESSFIT				
				mm	INCH																																
	4 PLACES			± ---	± ---																																
	3 PLACES			± ---	± ---																																
2 PLACES	± 0.20	± ---																																			
1 PLACE	± ---	± ---																																			
DRAWN BY	DATE																																				
CGOH	2002/06/13																																				
CHECKED BY	DATE																																				
DSOH	2002/08/07																																				
APPROVED BY	DATE																																				
SKTOH	2002/08/08																																				
ANGULAR ± 5 °		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87746-001		SHEET NO. 6 OF 6																															
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																															