

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

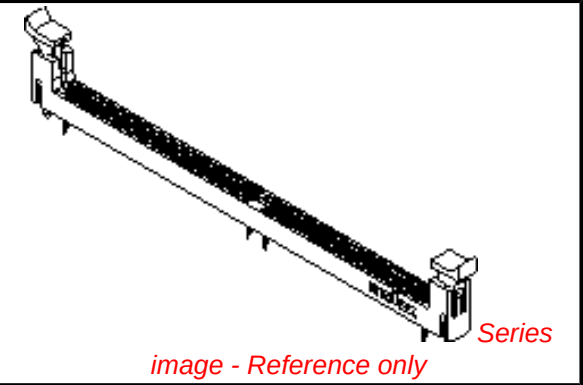
0877468011

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, 0.76µm(30µ") Selective Gold(Au) Plating, Lead-free



Documents:

3D Model

Drawing (PDF)

Product Specification PS-87746-002 (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)	0.165 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)	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	
Old Part Number	87746-0011

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

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

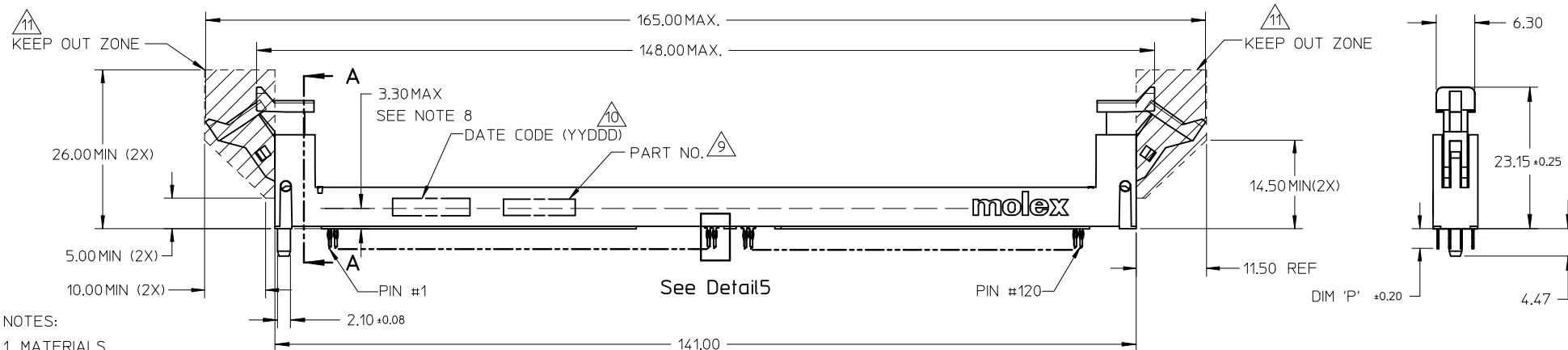
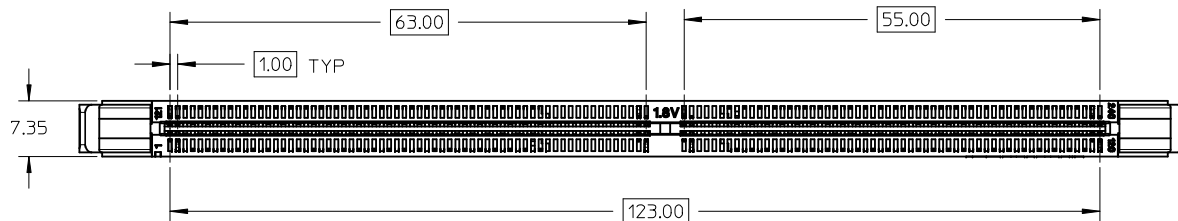
87746Series

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 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.

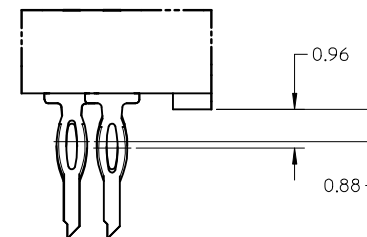
9. PART NUMBER SHALL BE MARKED LEGIBLY AS : 87746 XXXX

10. DATE CODE SHALL BE MARKED LEGIBLY AS SHOWN : YYDDD

11. KEEP OUT CROSS HATCHED ARE RESERVED FOR SOCKET

EJECTORS AT BOTH ENDS.

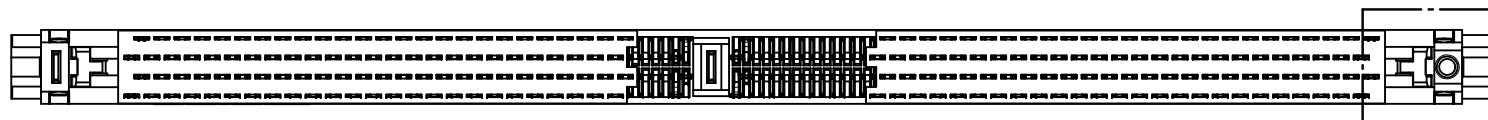
12. KEEP OUT ZONE IS HEIGHT LIMITED PER 11.



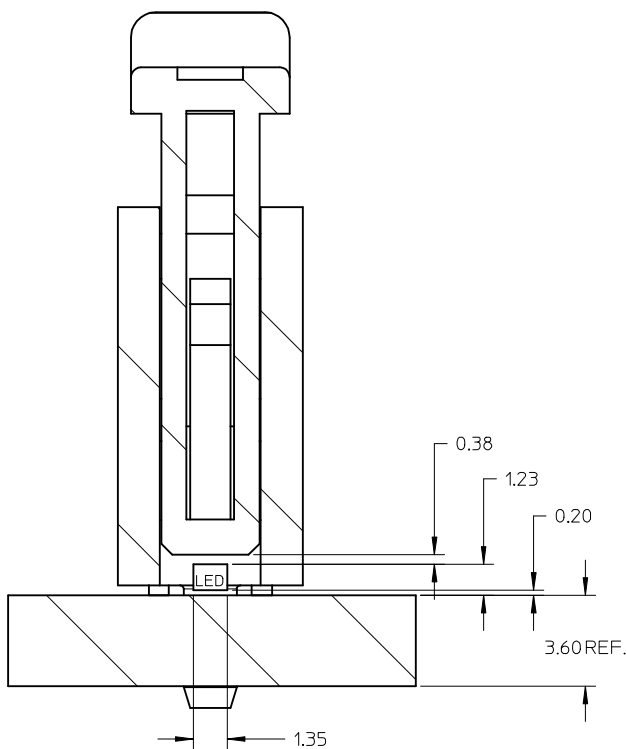
Detail5

PART NO UPDATED EC NO: S2009-0883 DRWN: TARUUGHAM 2009/05/22 CHKD: CGTAN 2009/05/22 APPR: SILENI 2009/05/25 D8	QUALITY SYMBOLS ▽=0 ◻=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
					MM ONLY		NTS	METRIC			
					DRAWN BY DATE		TITLE				
					CGOH 2002/06/13						
					CHECKED BY DATE						
		DSOH 2002/08/07		DDR2 DIMM, 100MM PITCH 240 CKTS, VERT. PRESSFIT							
		APPROVED BY DATE									
		SKTOH 2002/08/08		MOLEX INCORPORATED							
		MATERIAL NO.						DOCUMENT NO.		SHEET NO.	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87746-001		1 OF 6			
				SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

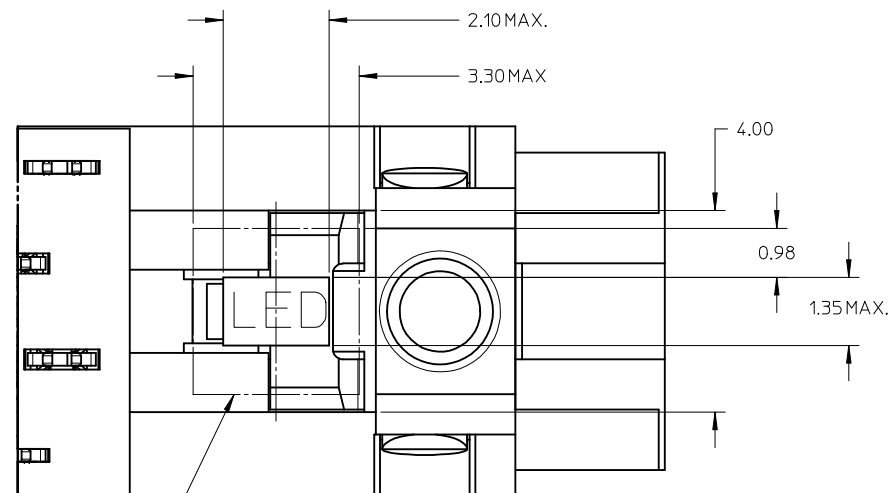
10 9 8 7 6 5 4 3 2 1



Detail3



SECTION A-A



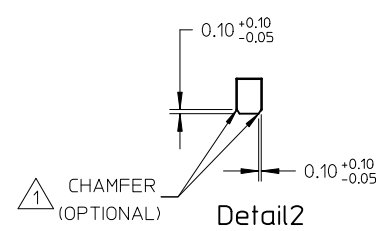
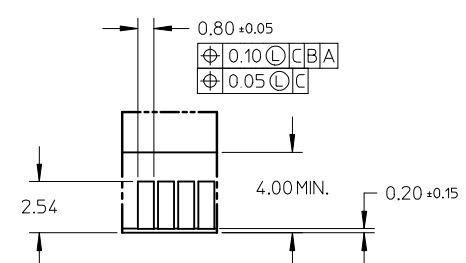
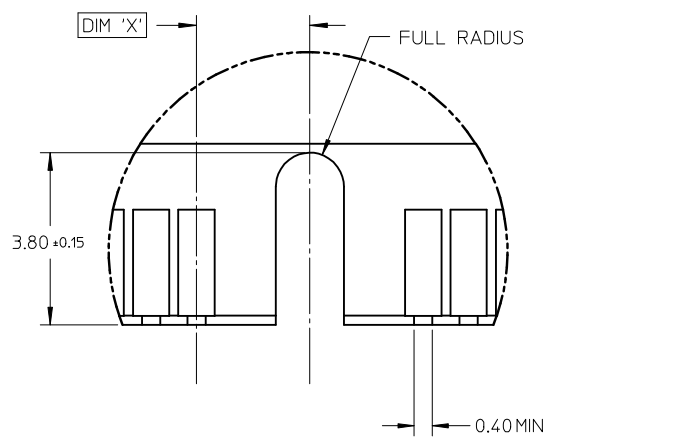
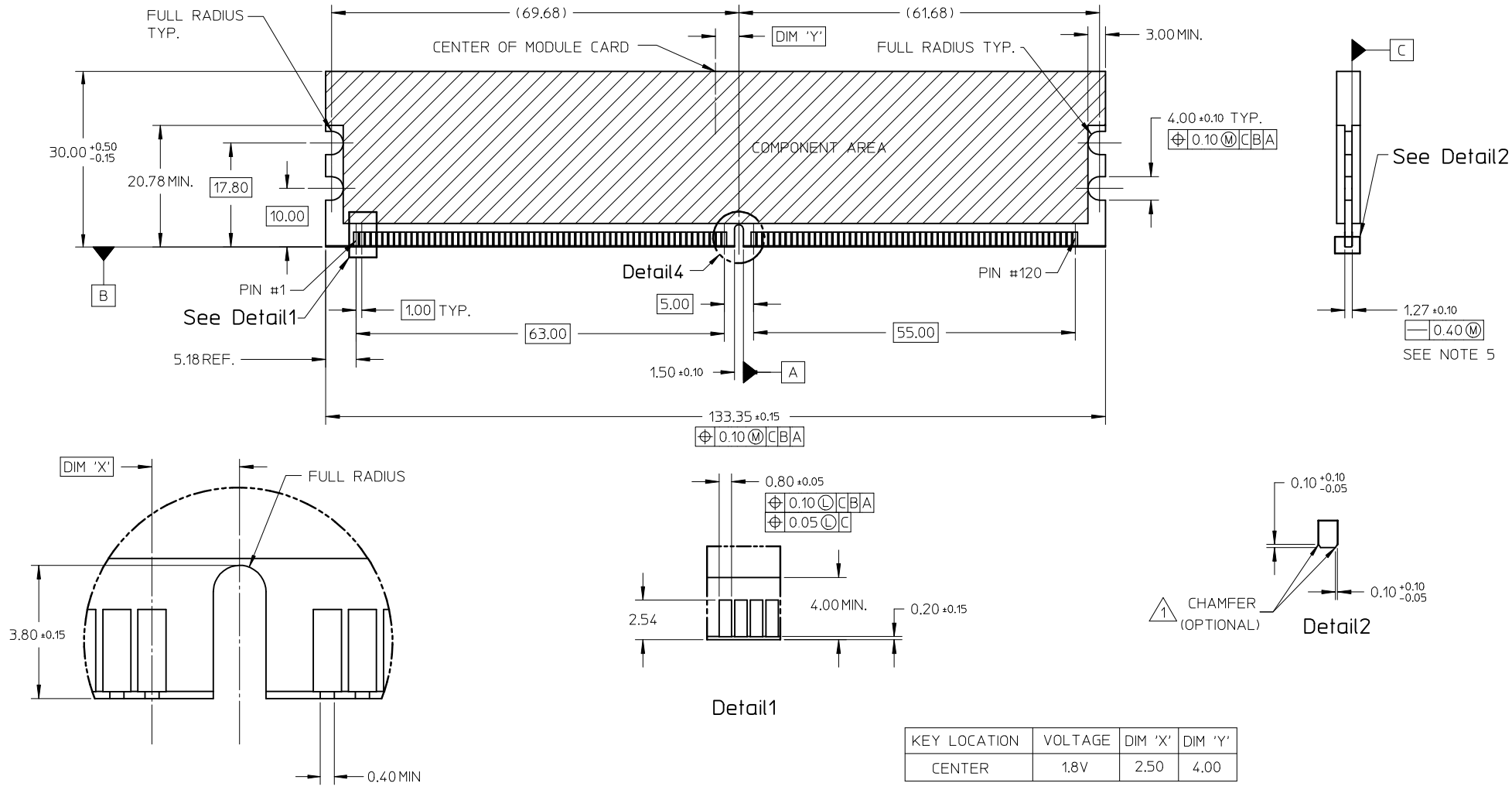
LED PLACEMENT AREA

Detail3

PART NO UPDATED EC NO: S2009-0883 DRWN: TARUMUGHAM CHKD: CGTAN APPR: SILENI	DESCRIPTION REV	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, 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 MOLEX INCORPORATED				
			2 PLACES	± 0.20	± ---									
			1 PLACE	± ---	± ---	ANGULAR ± 5 °		DOCUMENT NO. SD-87746-001		SHEET NO. 2 OF 6				
D8			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3		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

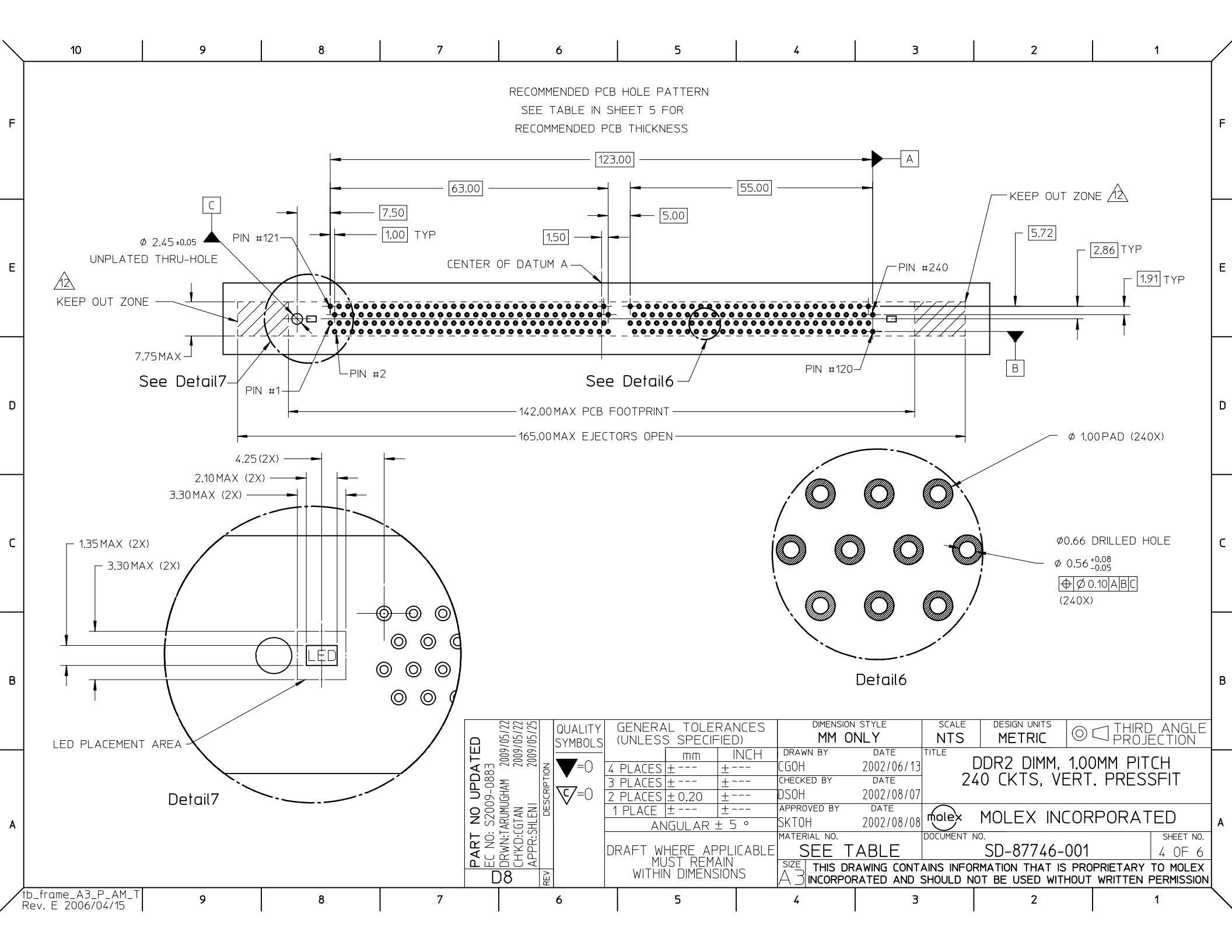
RECOMMENDED MODULE LAYOUT



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

NOTES :
1 MODULE CARD USED IN PRODUCT TESTING ARE CHAMFERED.

PART NO UPDATED EC NO: S2009-0883 DRWN: TARUMUGHAM CHKD: CGTAN APPR: SILENI REV	DESCRIPTION D8	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	MOLEX MOLEX INCORPORATED	DOCUMENT NO. SD-87746-001	SHEET NO. 3 OF 6
			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				
			1 PLACE	±---	±---	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					
			ANGULAR ± 5 °								



	10	9	8	7	6	5	4	3	2	1																																																																													
F	<table><tr><th>PART NO.</th><th>VOLTAGE KEY POS.</th><th>VOLTAGE KEY TEXT</th><th>TAIL LENGTH P±0.20</th><th>RECOMMENDED PCB THICKNESS</th><th>LUBRICATION</th><th>PLATING OPTION</th><th>LATCH COLOR</th><th>PLATING OPTION</th><th>HOUSING COLOR</th></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="25">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 D8</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>DOCUMENT NO.</td></tr><tr><td>1 PLACE</td><td>± --- ± ---</td><td colspan="2">SEE TABLE</td><td colspan="4">SD-87746-001</td></tr><tr><td colspan="3">ANGULAR ± 5 °</td><td colspan="2">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td><td colspan="2">SHEET NO. 5 OF 6</td></tr><tr><td colspan="3">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td colspan="5"></td></tr><tr><td colspan="3"></td><td colspan="5"></td></tr><tr><td colspan="3"></td><td colspan="5"></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 D8	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.	DOCUMENT NO.	1 PLACE	± --- ± ---	SEE TABLE		SD-87746-001				ANGULAR ± 5 °			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SHEET NO. 5 OF 6		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																								A	
PART NO UPDATED EC NO: S2009-0883 DRWN: TARUMUGHAM 2009/05/22 CHKD: CGTAN 2009/05/22 APPR: SHLENI 2009/05/25 D8	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.	DOCUMENT NO.																																																																																	
			1 PLACE	± --- ± ---	SEE TABLE		SD-87746-001																																																																																
			ANGULAR ± 5 °			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		SHEET NO. 5 OF 6																																																																															
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																																																																																				
	10	9	8	7	6	5	4	3	2	1																																																																													

