

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0879779001](#)  
**Status:** **Active**  
**Description:** 1.00mm (.039") Pitch Fully Buffered DIMM Socket, Vertical, Press-Fit, 240 Circuits, 1.8V Center Voltage Key, with Plastic Locating Peg and Press-Fit Metal Pins, with Black Latches, 0.38µm (15&micro") Gold (Au) Plating, Lead-free

**Documents:**

[3D Model](#) [Product Specification PS-87977-001 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA LR19980  
 UL E29179

**General**

Product Family Memory Module Sockets  
 Series [87977](#)  
 Comments <LI>Latches in Black Color<LI>Solder Tail Length at 3.15mm (.124)  
 Component Type Memory Module  
 JEDEC Outline MO-256  
 Product Name FB DIMM

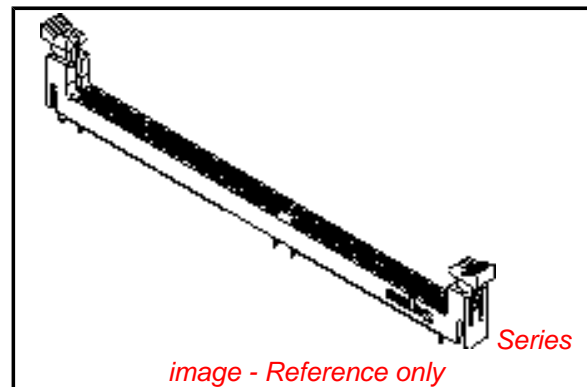
**Physical**

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) 0.124 In  
 PC Tail Length (mm) 3.15 mm  
 PCB Locator Yes  
 PCB Retention Yes  
 PCB Thickness Recommended (in) 0.130 In  
 PCB Thickness Recommended (mm) 3.30 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) 15.2  
 Plating min: Termination (µm) 0.38  
 Temperature Range - Operating -10°C to +85°C  
 Termination Interface: Style Through Hole - Compliant Pin

**Electrical**

Current - Maximum per Contact 1A  
 Voltage - Maximum 30V  
 Voltage Key 1.8V, Center

**Material Info**



**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](mailto: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**

[87977Series](#)

**Mates With**

JEDEC MO-256 modules

**Reference - Drawing Numbers**

Product Specification  
Sales Drawing

PS-87977-001  
SD-87977-020

This document was generated on 06/08/2010

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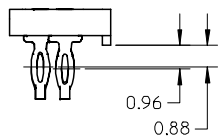
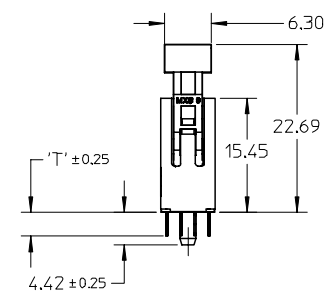
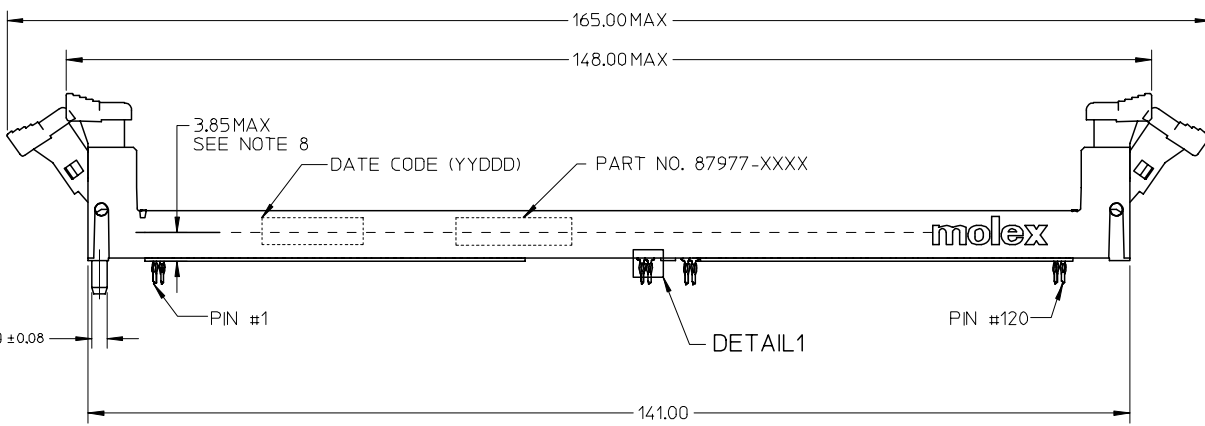
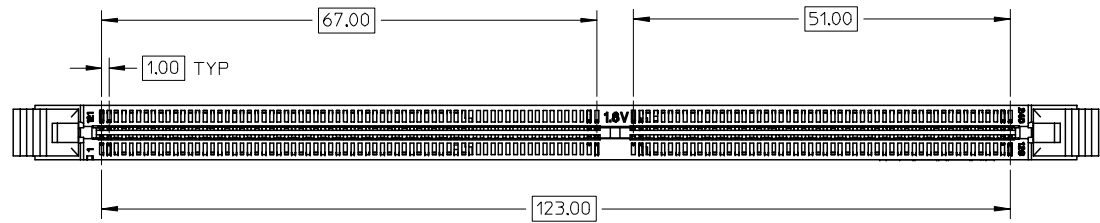
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NOTES:

1. MATERIALS  
 HOUSING - HIGH TEMP. NYLON, GLASS FILLED, UL 94V-0, BLACK  
 EJECTOR - HIGH TEMP. NYLON, GLASS FILLED, UL 94V-0, NATURAL  
 BASE PLATE - HIGH TEMP. NYLON, GLASS FILLED, UL 94V-0  
 TERMINAL - COPPER ALLOY
2. PLATING - SEE TABLE IN SHEET 5.
3. CARD SLOT ACCEPTS 1.27±0.10 MM MODULE THICKNESS.  
 (MEASURED OVER P.C. PADS)
4. RECOMMENDED MODULE LAYOUT SHALL BE AS PER JEDEC MO-14-066.
5. REFER TO PRODUCT SPEC. PS-87977-030 FOR PERFORMANCE SPECIFICATIONS.
6. PRODUCT SHALL BE PACKED IN TRAY.
7. PRODUCT SHALL HAVE DATE CODE STAMPED ON SIDE OF HOUSING.
8. PRODUCT IS SUITABLE FOR WAVE SOLDERING ONLY.
9. KEEP OUT AREA IS THE AREA WHERE THE CONNECTOR IS MOUNTED ONTO THE PCB WHICH DOES NOT INCLUDE THE LATCH.
10. REFER TO CRITICAL JEDEC INFORMATION FOR SOCKET OUTLINE PER S0-001.
11. DIMM MODULE SEATING PLANE FROM TOP OF PCB.
12. CONTACT MOLEX FOR AVAILABILITY OF PRODUCT OPTIONS.



DETAIL 1

EC NO: S2006-0241	2005/09/01	2005/09/01	2005/09/02
DRWN: CCTEH	CHKD: SRRAMESH	APPR: GGLEE	
REV	DESCRIPTION		
A			

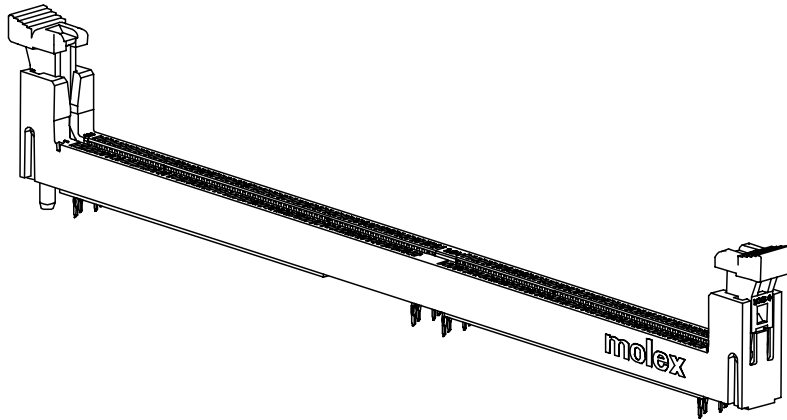
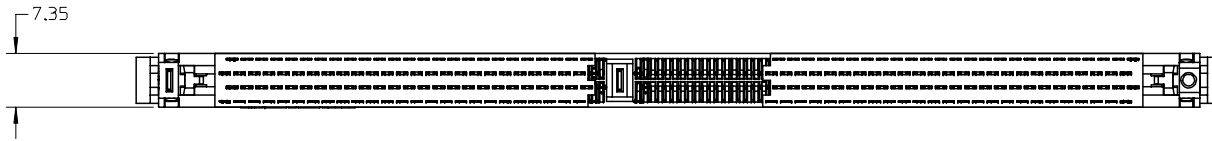
QUALITY SYMBOLS	▽=0
	∇=0

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		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
MM ONLY		NTS	METRIC	
DRAWN BY	DATE	TITLE		
CCTEH	2005/01/10	SALES DRAWING		
CHECKED BY	DATE	DDR FB DIMM 1.00MM PITCH		
SRRAMESH	2005/08/30	240 CKTS VERT. PRESS-FIT		
APPROVED BY	DATE	MOLEX INCORPORATED		
GGLEE	2005/08/30			
MATERIAL NO.	DOCUMENT NO.	SHEET NO.		
	SD-87977-020	1 OF 5		
SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
A3				

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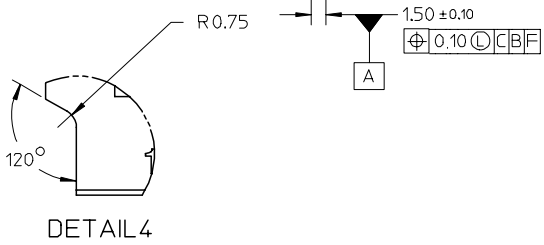
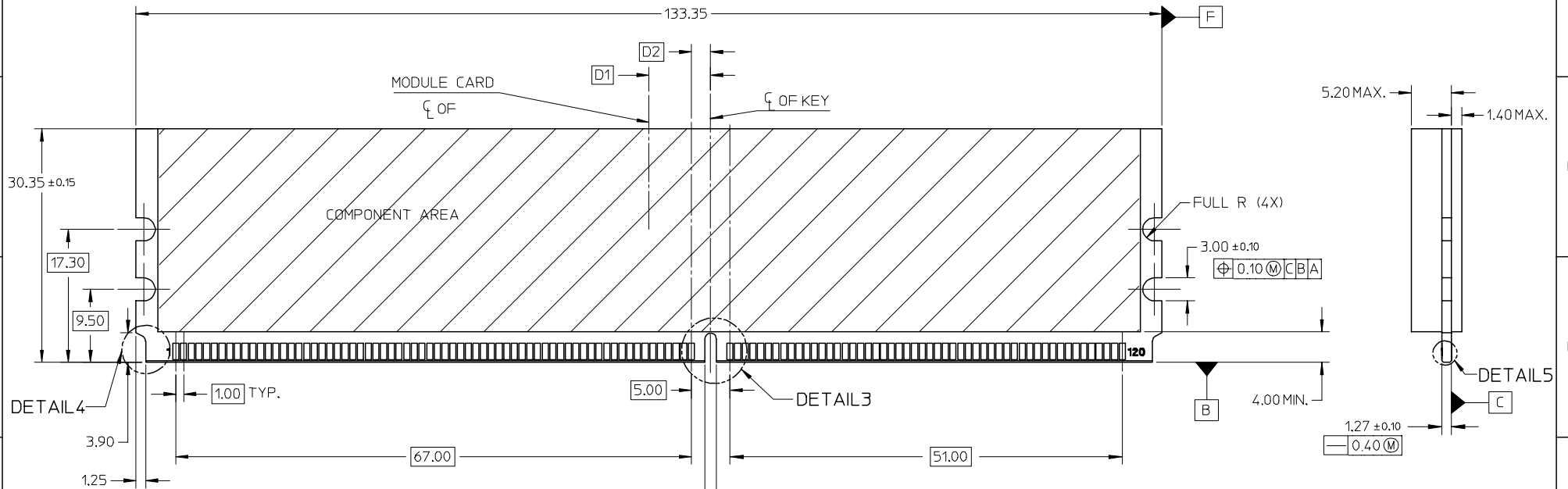
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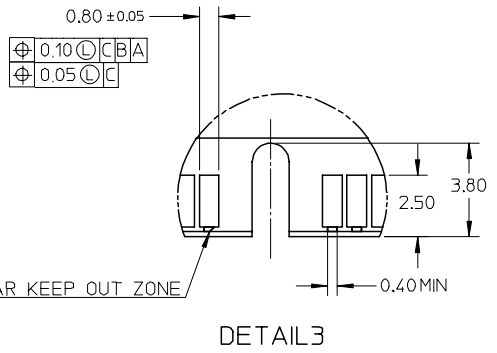
EC NO: S2006-0241 2005/09/01 DRWN: CCTEH 2005/09/01 CHKD: SRRAMESH APPR: GGLEE 2005/09/02	DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
		$\nabla=0$ $\nabla C=0$	4 PLACES ± ---    ± --- 3 PLACES ± ---    ± --- 2 PLACES ± 0.20    ± --- 1 PLACE ± ---    ± ---	mm    INCH	DRAWN BY    DATE CCTEH    2005/01/10 CHECKED BY    DATE SRRAMESH    2005/08/30 APPROVED BY    DATE GGLEE    2005/08/30	TITLE		MOLEX INCORPORATED	DOCUMENT NO. SD-87977-020	SHEET NO. 2 OF 5
		ANGULAR ± 5 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE				
		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						

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RECOMMENDED MODULE LAYOUT  
(VARIATION AB, AS PER JEDEC MO-256A)



KEY LOCATION	VOLTAGE	DIM 'D2'	DIM 'D1'
CENTER	1.8V	2.50	8.00



EC NO: S2006-0241	2005/09/01	2005/09/01	2005/09/02
DRWN: CTEH	CHKD: SRRAMESH	APPR: GGLEE	
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QUALITY SYMBOLS	DESCRIPTION
▽=0	
∇=0	

GENERAL TOLERANCES (UNLESS SPECIFIED)	
	ANGULAR ± 5°
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION STYLE	
MM ONLY	
DRAWN BY	DATE
CTEH	2005/01/10
CHECKED BY	DATE
SRRAMESH	2005/08/30
APPROVED BY	DATE
GGLEE	2005/08/30
MATERIAL NO.	SEE TABLE

SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
NTS	METRIC	
SALES DRAWING		
DDR FB DIMM 1.00MM PITCH		
240 CKTS VERT. PRESS-FIT		
MOLEX INCORPORATED		
DOCUMENT NO.	SHEET NO.	
SD-87977-020	3 OF 5	
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

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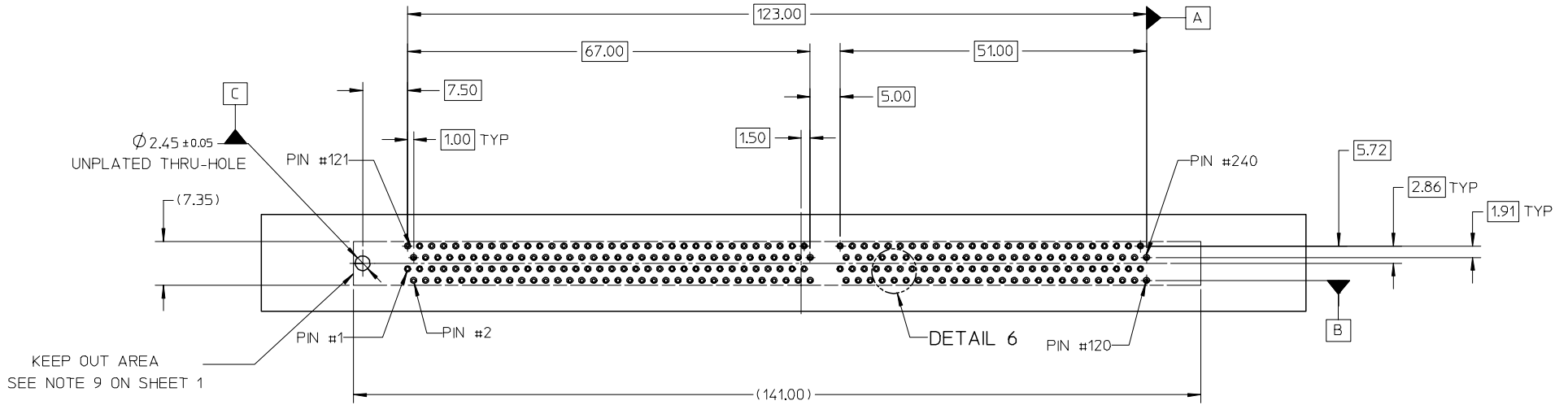
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RECOMMENDED PCB HOLE PATTERN  
SEE TABLE IN SHEET 5 FOR  
RECOMMENDED PCB THICKNESS

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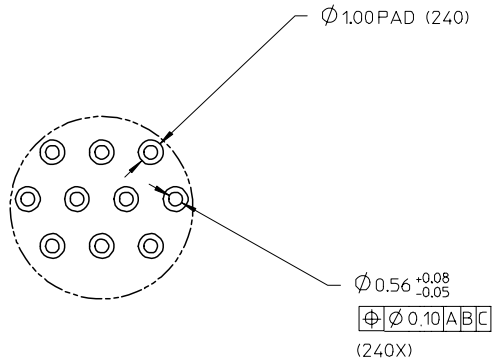


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DETAIL 6

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EC NO: S2006-0241 DRWN: CTEH 2005/09/01 CHKD: SRRAMESH 2005/09/01 APPR: GGLEE 2005/09/02	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION															
	$\nabla=0$ $\sphericalangle=0$	<table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <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> </tbody> </table> ANGULAR ± 5 °		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.20	± ---	1 PLACE	± ---	± ---	MM ONLY	NTS	METRIC	
		mm	INCH																		
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1 PLACE	± ---	± ---																			
DESCRIPTION																					
REV		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWN BY: CTEH DATE: 2005/01/10 CHECKED BY: SRRAMESH DATE: 2005/08/30 APPROVED BY: GGLEE DATE: 2005/08/30	TITLE	SALES DRAWING DDR FB DIMM 1.00MM PITCH 240 CKTS VERT. PRESS-FIT																
A			MATERIAL NO.	DOCUMENT NO.	MOLEX INCORPORATED SD-87977-020																
			SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																	
					SHEET NO.	4 OF 5															

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PART NO.	KEY POS.	DIM 'T'	RECOMEMDED PCB THICKNESS	PLATING OPTION	LATCH COLOR
87977-0021	CENTER (1.8V)	3.15	3.30	0.38uM / 15 uIN MIN. GOLD ON CONTACT, 1.52uM/ 60uIN MIN. PURE TIN ON SOLDERTAILS, 1.27uM/ 50uIN MIN. NICKEL UNDERPLATE	NATURAL
87977-0051				0.76uM / 30 uIN MIN. GOLD ON CONTACT, 1.52uM/ 60uIN MIN. PURE TIN ON SOLDERTAILS, 1.27uM/ 50uIN MIN. NICKEL UNDERPLATE	
87977-9001				0.38uM / 15 uIN MIN. GOLD ON CONTACT, 1.52uM/ 60uIN MIN. TIN ON SOLDERTAILS, 1.27uM/ 50uIN MIN. NICKEL UNDERPLATE	BLACK

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EC NO: S2006-0241 2005/09/01 DRWN: CTEH 2005/09/01 CHKD: SRRAMESH 2005/09/02 APPR: GGLEE	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
			4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- ANGULAR ± 5 °	mm INCH	DRAWN BY CTEH DATE 2005/01/10	TITLE SALES DRAWING DDR FB DIMM 1.00MM PITCH 240 CKTS VERT. PRESS-FIT	APPROVED BY GGLEE DATE 2005/08/30	MOLEX INCORPORATED	MATERIAL NO. SEE TABLE	DOCUMENT NO. SD-87977-020
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					

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- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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## JONHON

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