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Part Number: [0879770051](#)
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 Off-White Latches, 0.76µm (30µ") 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 Latches in Off-White ColorSolder Tail Length at 3.15mm (.124)
 Component Type Memory Module
 JEDEC Outline MO-256
 Product Name FB DIMM

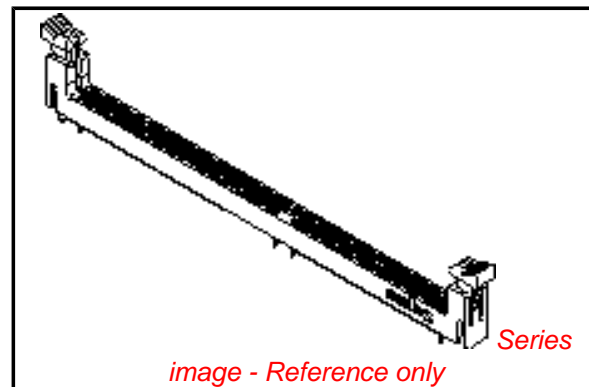
Physical

Circuits (Loaded) 240
 Color - Resin Black, Natural
 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) 30
 Plating min: Mating (µm) 0.76
 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
 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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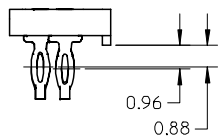
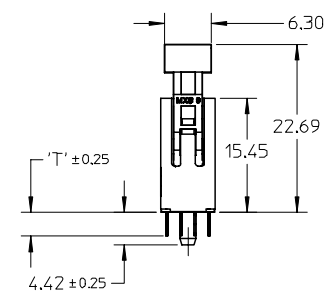
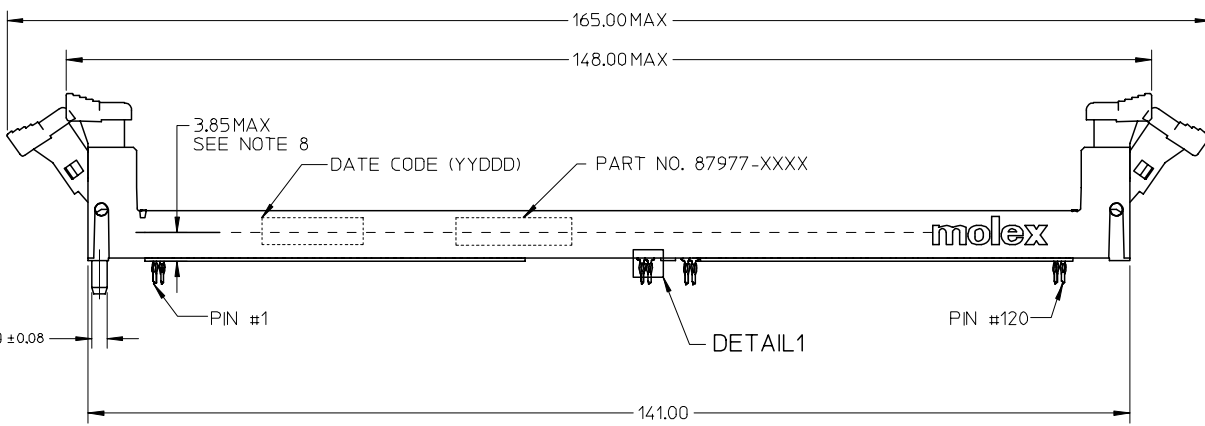
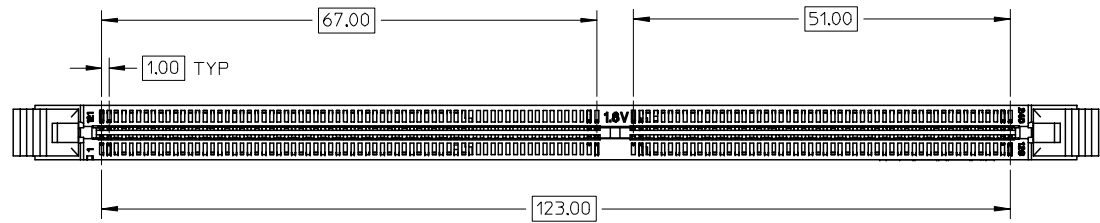
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NOTES:

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.

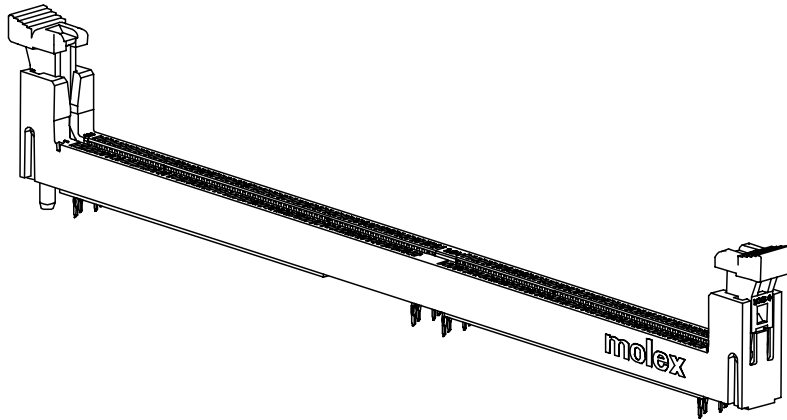
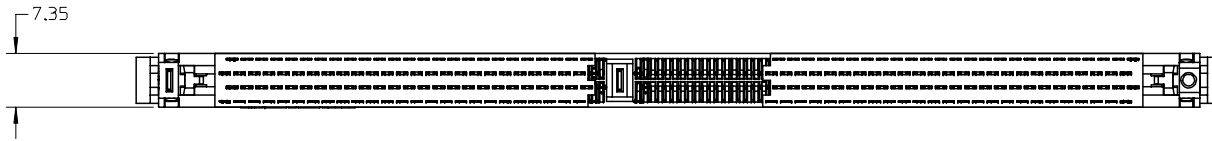


DETAIL 1

EC NO: S2006-0241 DRWN: CCTEH CHKD: SRRAMESH APPR: GGLEE	2005/09/01 2005/09/01 2005/09/02	QUALITY SYMBOLS ▽=0 ◁=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
A	REV	DESCRIPTION			DRAWN BY CCTEH		DATE 2005/01/10		TITLE SALES DRAWING	
					CHECKED BY SRRAMESH		DATE 2005/08/30		DDR FB DIMM 1.00MM PITCH 240 CKTS VERT. PRESS-FIT	
					APPROVED BY GGLEE		DATE 2005/08/30		MOLEX INCORPORATED	
					MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87977-020		1 OF 5	
					SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

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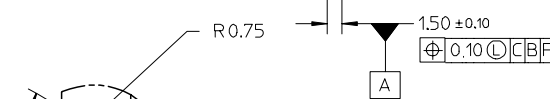
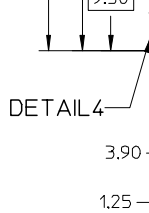
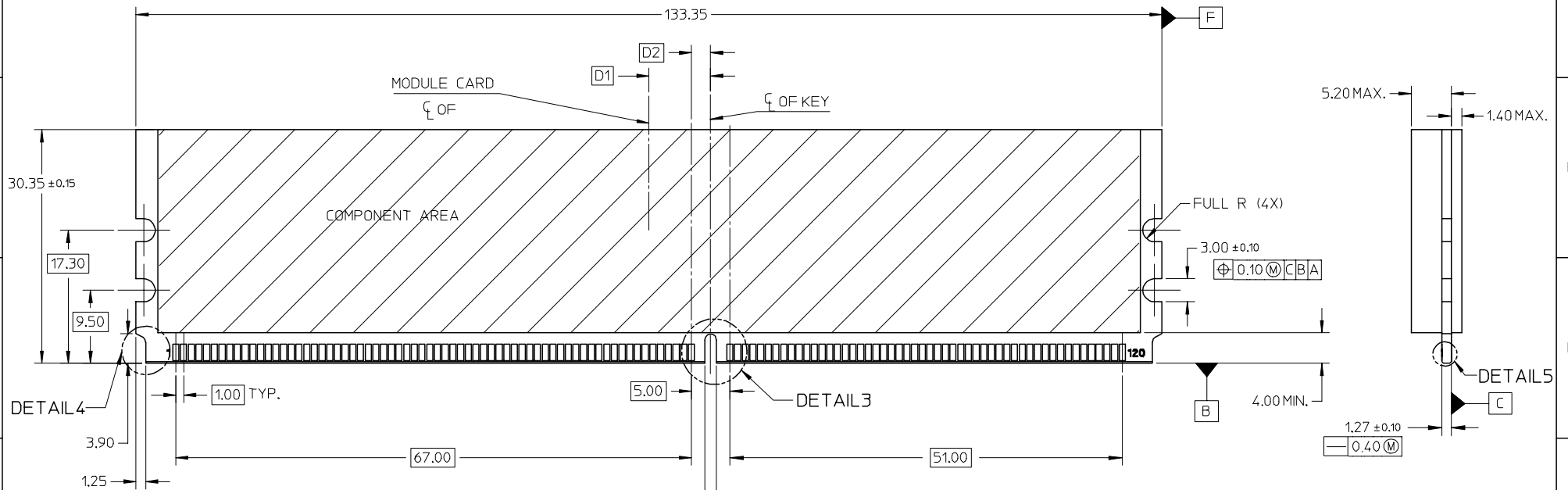
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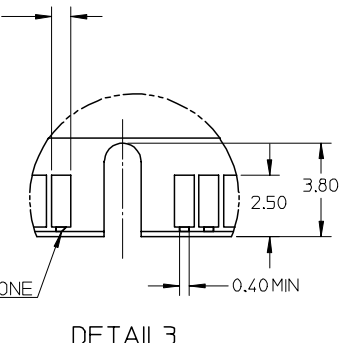
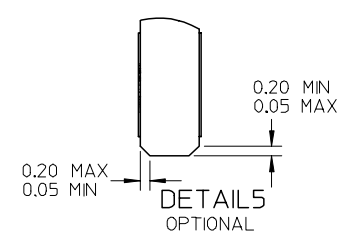
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		$\nabla=0$ $\nabla C=0$	<table border="1"> <thead> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> </thead> <tbody> <tr> <td>4 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>3 PLACES</td> <td>± ---</td> <td>± ---</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.20</td> <td>± ---</td> </tr> <tr> <td>1 PLACE</td> <td>± ---</td> <td>± ---</td> </tr> </tbody> </table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.20	± ---	1 PLACE	± ---	± ---	DRAWN BY CCTEH DATE 2005/01/10		TITLE SALES DRAWING DDR FB DIMM 1.00MM PITCH 240 CKTS VERT. PRESS-FIT		MOLEX INCORPORATED			
			mm	INCH																						
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A			ANGULAR ± 5 °		GGLEE 2005/08/30		MOLEX																			

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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	QUALITY SYMBOLS
DRWN: CTEH	2005/09/01	▽=0
CHKD: SRRAMESH	2005/09/01	∇=0
APPR: GGLEE	2005/09/02	
REV	DESCRIPTION	
A		

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		
CTEH	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	MOLEX INCORPORATED		
MATERIAL NO.	DOCUMENT NO.	SHEET NO.		
	SD-87977-020	3 OF 5		
SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			
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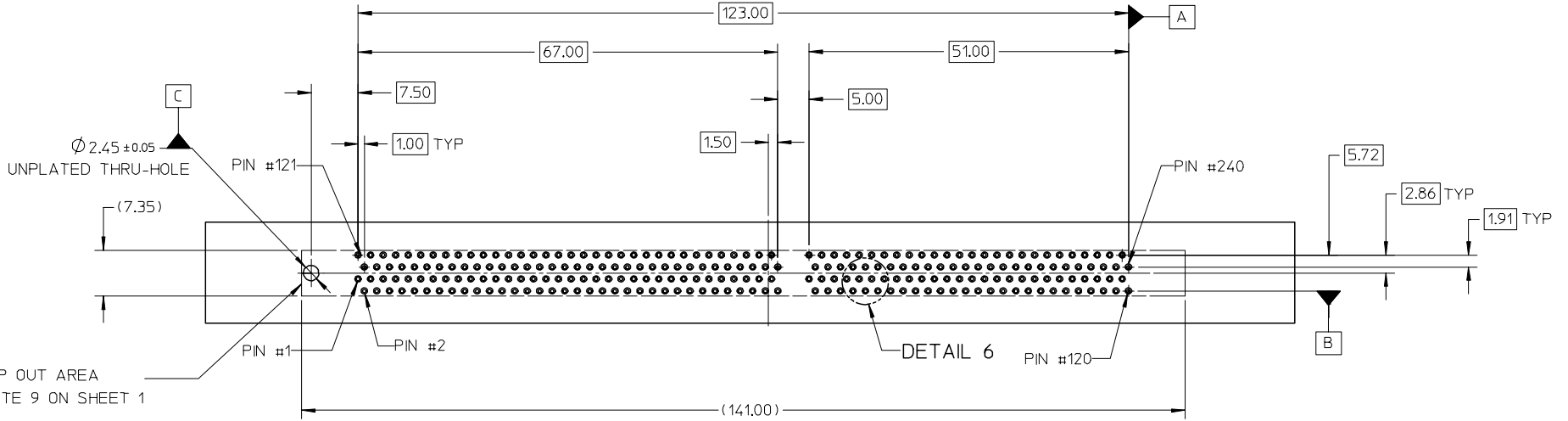
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RECOMMENDED PCB HOLE PATTERN
SEE TABLE IN SHEET 5 FOR
RECOMMENDED PCB THICKNESS

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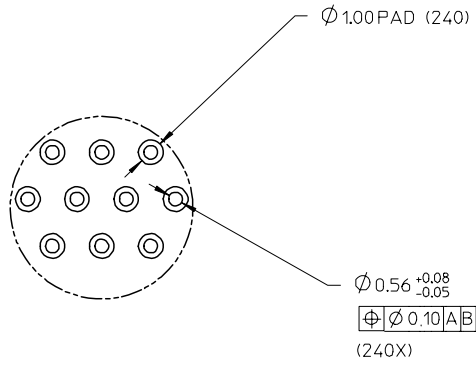


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DETAIL 6

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) <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> <tr> <td colspan="3">ANGULAR ± 5 °</td> </tr> </tbody> </table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± ---	2 PLACES	± 0.20	± ---	1 PLACE	± ---	± ---	ANGULAR ± 5 °			DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION SALES DRAWING DDR FB DIMM 1.00MM PITCH 240 CKTS VERT. PRESS-FIT MOLEX INCORPORATED
			mm	INCH																				
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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 CHKD: SRRAMESH 2005/09/01 APPR: GGLEE 2005/09/02	QUALITY SYMBOLS =0 =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
				mm	INCH	DRAWN BY	DATE	TITLE SALES DRAWING DDR FB DIMM 1.00MM PITCH 240 CKTS VERT. PRESS-FIT			
		4 PLACES	± ---	± ---		CTEH	2005/01/10				
		3 PLACES	± ---	± ---		CHECKED BY	DATE	MOLEX INCORPORATED			
2 PLACES	± 0.20	± ---		SRRAMESH	2005/08/30						
1 PLACE	± ---	± ---		APPROVED BY	DATE	MATERIAL NO. SEE TABLE DOCUMENT NO. SD-87977-020 SHEET NO. 5 OF 5					
ANGULAR ± 5 °				GGLEE	2005/08/30						
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- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Экспресс доставка в любую точку России;
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- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- 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

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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