

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

**Part Number:** [0784920001](#)  
**Status:** **Active**  
**Overview:** [micro\\_sata](#)  
**Description:** 1.27mm (.050") Pitch Micro Serial ATA Device Receptacle for 1.8" SSD/HDD, SMT, Vertical, with Pegs and Kapton Tape, 16 Circuits, EmbossedTape on Reel, Lead free

**Documents:**

[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)  
[Product Specification PS-78492-001 \(PDF\)](#)

**Agency Certification**

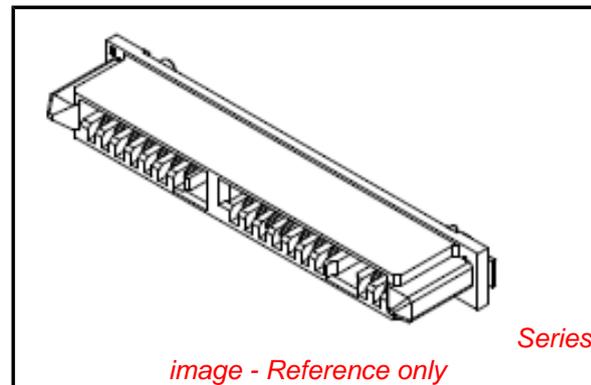
CSA LR19980  
 UL E29179

**General**

Product Family PCB Receptacles  
 Series [78492](#)  
 Application Board-to-Board  
 Comments Rimmed connector base; connector width: 4.38mm (.163")  
 Overview [micro\\_sata](#)  
 Product Name Micro Serial ATA, Serial ATA

**Physical**

Circuits (Loaded) 16  
 Circuits (maximum) 16  
 Color - Resin Black  
 Durability (mating cycles max) 500  
 Flammability 94V-0  
 Glow-Wire Compliant No  
 Guide to Mating Part Yes  
 Keying to Mating Part Yes  
 Lock to Mating Part No  
 Material - Metal Copper Alloy  
 Material - Plating Mating Gold  
 Material - Plating Termination Tin  
 Material - Resin High Temperature Thermoplastic  
 Number of Rows 1  
 Orientation Vertical  
 PCB Locator Yes  
 PCB Retention Yes  
 Packaging Type Embossed Tape on Reel  
 Pitch - Mating Interface (in) 0.050 In, 0.052 In  
 Pitch - Mating Interface (mm) 1.27 mm, 1.32 mm  
 Pitch - Term. Interface (in) 0.050 In, 0.052 In  
 Pitch - Term. Interface (mm) 1.27 mm, 1.32 mm  
 Plating min: Mating (µin) 5  
 Plating min: Mating (µm) 0.127  
 Plating min: Termination (µin) 100  
 Plating min: Termination (µm) 2.54  
 Polarized to Mating Part Yes  
 Polarized to PCB Yes  
 Stackable No  
 Temperature Range - Operating 0°C to +55°C  
 Termination Interface: Style Surface Mount



*image - Reference only*

**EU RoHS**

**ELV and RoHS Compliant**  
**REACH SVHC Contains SVHC: No**  
**Halogen-Free**  
**Status Not Reviewed**

**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**

[78492Series](#)

**Mates With**

[78103](#) , [78283](#) and [78285](#) Micro SATA Device Plugs

**Electrical**

Current - Maximum per Contact	1.5A
Grounding to PCB	Yes
Voltage - Maximum	30V

**Solder Process Data**

Duration at Max. Process Temperature (seconds)	3
Lead-free Process Capability	Reflow Capable (SMT only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

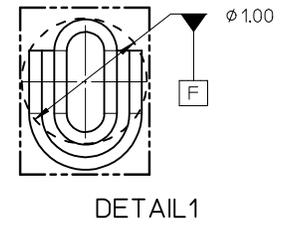
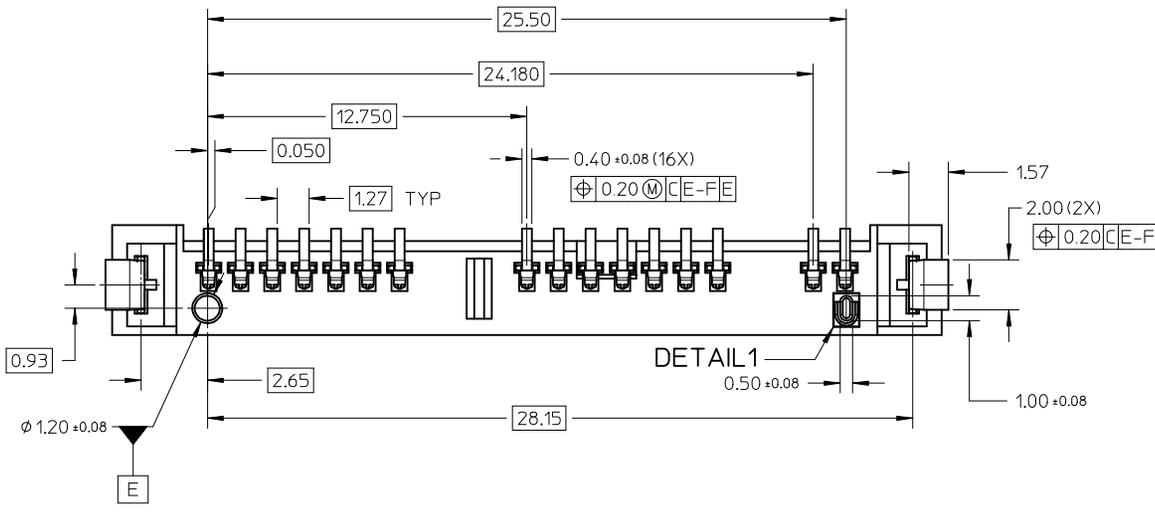
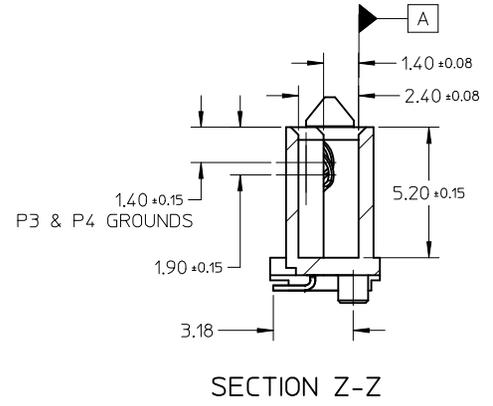
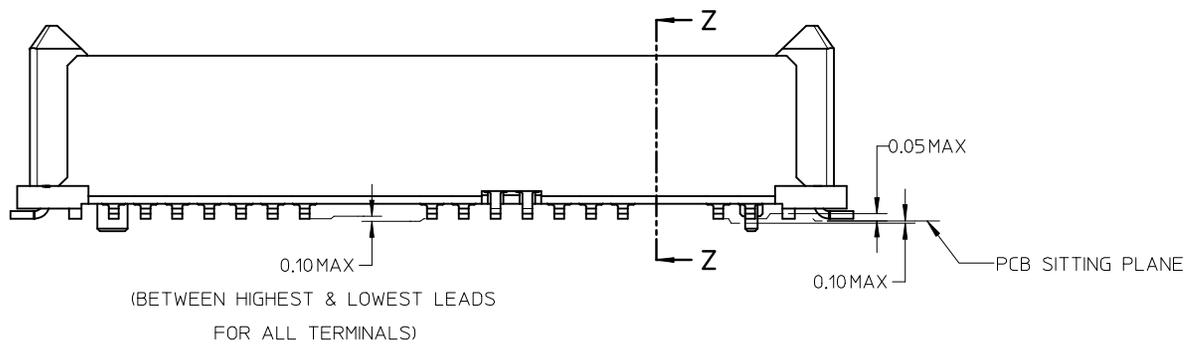
**Material Info****Reference - Drawing Numbers**

Packaging Specification	PK-78492-001
Product Specification	PS-78492-001
Sales Drawing	SD-78492-001

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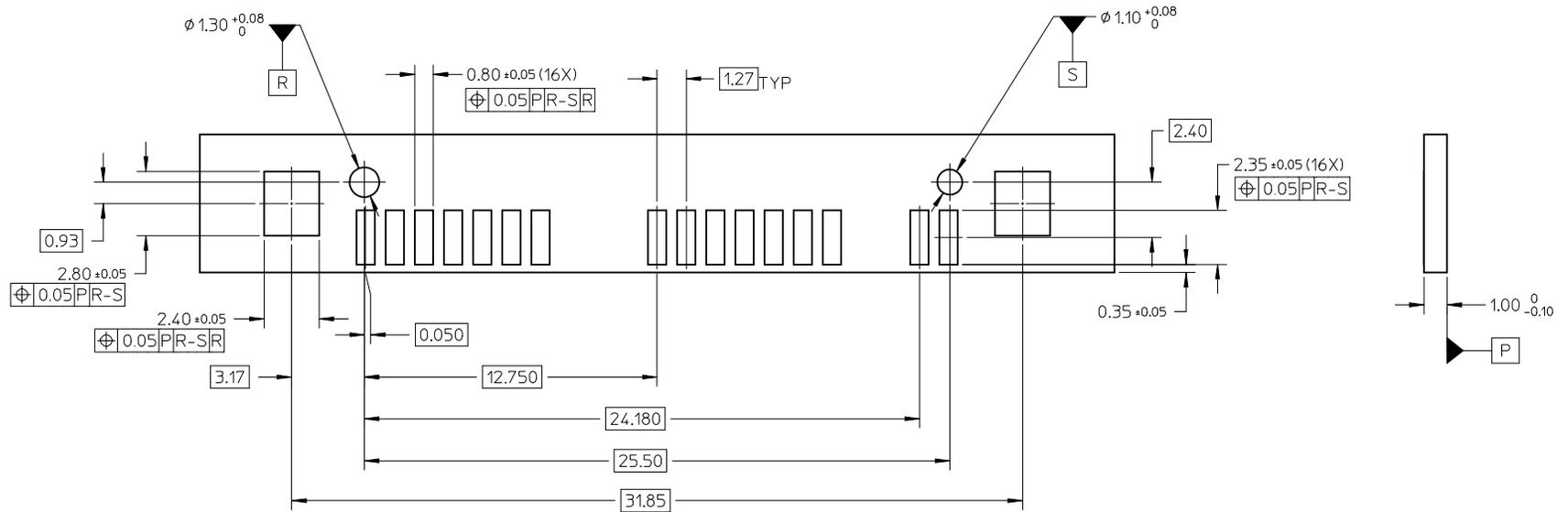
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SEE SHEET 4 EC NO: S2009-0967 DRWN:GMENARLY CHKD:CGOH APPR:BOKOK	2009/08/04 2009/08/04 2009/08/05	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE MM ONLY	SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
	DESCRIPTION A1	4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- ANGULAR ± 3 °	mm INCH DRAWN BY GMENARLY CHECKED BY CGOH APPROVED BY BOKOK MATERIAL NO. BOKOK	DATE 2009/03/17 DATE 2009/05/20 DATE 2009/05/20	TITLE MICRO SATA RECEPTACLE VERTICAL SMT 1.8 INCH SSD/HDD	MOLEX INCORPORATED	DOCUMENT NO. SD-78492-001	SHEET NO. 2 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	SIZE A3				

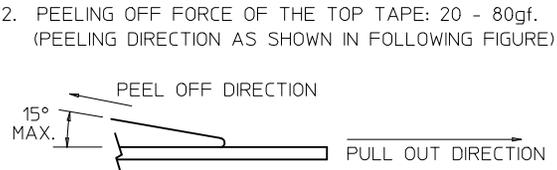
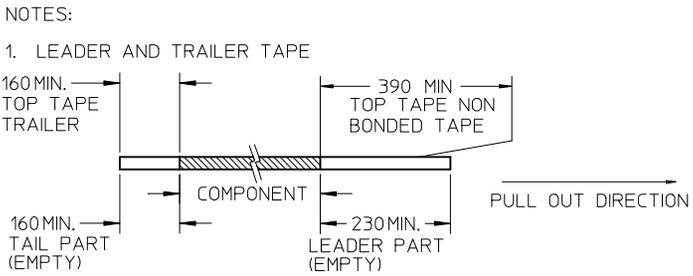
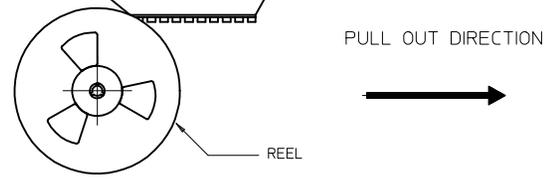
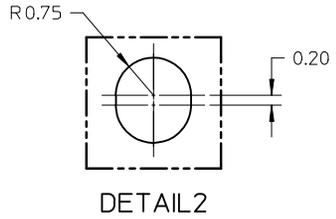
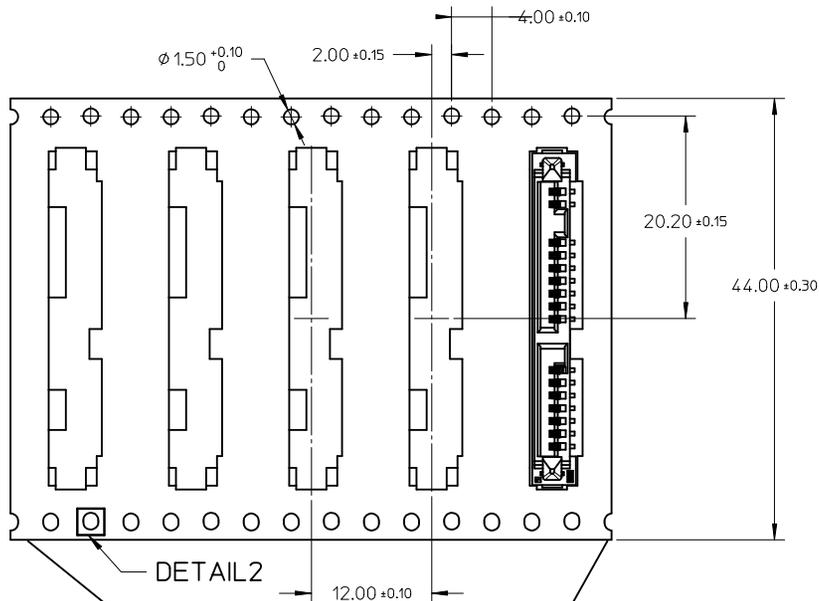
10	9	8	7	6	5	4	3	2	1
PART NUMBER		FINISHES				PRODUCT SPECIFICATIONS			
78492-0001		TERMINAL CONTACT :0.127µm MIN. SELECTIVE GOLD OVER 1.27µm MIN. NICKEL UNDERPLATE TERMINAL SOLDER TAIL :2.54µm MIN. TIN OVER 1.27µm MIN. NICKEL UNDERPLATE SOLDER TAB : 2.54µm MIN. TIN OVER 1.91µm MIN. NICKEL UNDERPLATE				PS-78492-001			
78492-0002		TERMINAL CONTACT :0.38µm MIN. SELECTIVE GOLD OVER 1.27µm MIN. NICKEL UNDERPLATE TERMINAL SOLDER TAIL :2.54µm MIN. TIN OVER 1.27µm MIN. NICKEL UNDERPLATE SOLDER TAB : 2.54µm MIN. TIN OVER 1.91µm MIN. NICKEL UNDERPLATE				PS-78492-002			
78492-0003		TERMINAL CONTACT :0.76µm MIN. SELECTIVE GOLD OVER 1.27µm MIN. NICKEL UNDERPLATE TERMINAL SOLDER TAIL :2.54µm MIN. TIN OVER 1.27µm MIN. NICKEL UNDERPLATE SOLDER TAB : 2.54µm MIN. TIN OVER 1.91µm MIN. NICKEL UNDERPLATE							



RECOMMENDED PCB LAYOUT

SEE SHEET 4 EC NO: S2009-0967 DRWN:GMENARLY 2009/08/04 CHKD:CGOH 2009/08/04 APPR:BOKOK 2009/08/05	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION																							
	$\nabla=0$ $\text{C}=0$	<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	± ---	± ---	MM ONLY	NTS	METRIC									
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# PACKAGING INFORMATION



- 3. TAPE AND REEL SPECIFICATION IS AS PER EIA-481.
- 4. TAPE AND REEL QUANTITY : 550 PCS/ REEL.
- 5. THE TAPE IS TREATED FOR ANTI-STATIC.

<b>REV. CARRIER TAPE</b> EC NO: S2009-0967 DRWN:GMENARLY 2009/08/04 CHKD:CGOH 2009/08/04 APPR:BOKOK 2009/08/05	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
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	1 PLACE	± ---	± ---	MATERIAL NO.	DATE	DOCUMENT NO.				
		ANGULAR ± 3 °		SEE TABLE		SD-78492-001				
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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

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