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Part Number: [0879751001](#)
Status: **Active**
Description: 1.27mm (.050") Signal Pitch, 0.80mm (.031") SCSI Pitch, 1.27mm (.050") Power Pitch
SAS Receptacle, Right Angle, Surface Mount, "Z" Height of 2.85mm (.112"), with
Beveled Metal Pins, 29 Circuits, Leadfree

Documents:

[3D Model](#) [Product Specification PS-87975-102 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980
UL E29179

General

Product Family I/O Connectors
Series [87975](#)
Application Board-to-Board
Comments No pick and place cap|"Z" Height - 2.85mm (.112")
Component Type Receptacle
Product Name SAS
Type N/A

Physical

Boot Color N/A
Circuits (Loaded) 29
Circuits (maximum) 29
Circuits Detail Signal 7, SCSI 7, Power 15
Color - Resin Black
Durability (mating cycles max) 500
Flammability 94V-0
Gender Female
Keying to Mating Part Yes
Lock to Mating Part None
Material - Plating Mating Gold
Material - Plating Termination Tin
Number of Rows 2
Orientation Right Angle
PCB Locator Yes
PCB Retention Yes
PCB Thickness Recommended (in) 0.062 In
PCB Thickness Recommended (mm) 1.60 mm
Packaging Type Tray
Panel Mount Yes
Pitch - Mating Interface (in) 0.031 In, 0.050 In
Pitch - Mating Interface (mm) 0.80 mm, 1.27 mm
Pitch - Term. Interface (in) 0.031 In, 0.050 In
Pitch - Term. Interface (mm) 0.80 mm, 1.27 mm
Plating min: Mating (µin) 30
Plating min: Mating (µm) 0.76
Plating min: Termination (µin) 102
Plating min: Termination (µm) 2.54
Polarized to Mating Part Yes
Polarized to PCB Yes
Surface Mount Compatible (SMC) N/A
Temperature Range - Operating 0°C to +55°C

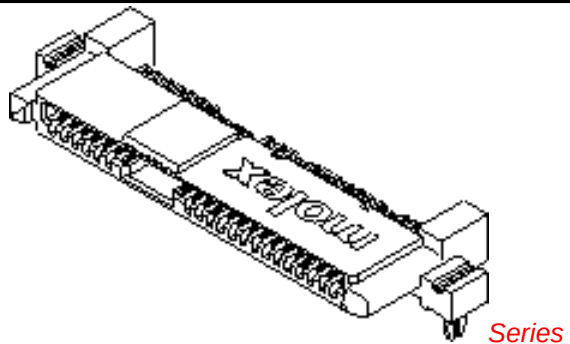


image - Reference only

Series

EU RoHS

**ELV and RoHS
Compliant**

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

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

[87975Series](#)

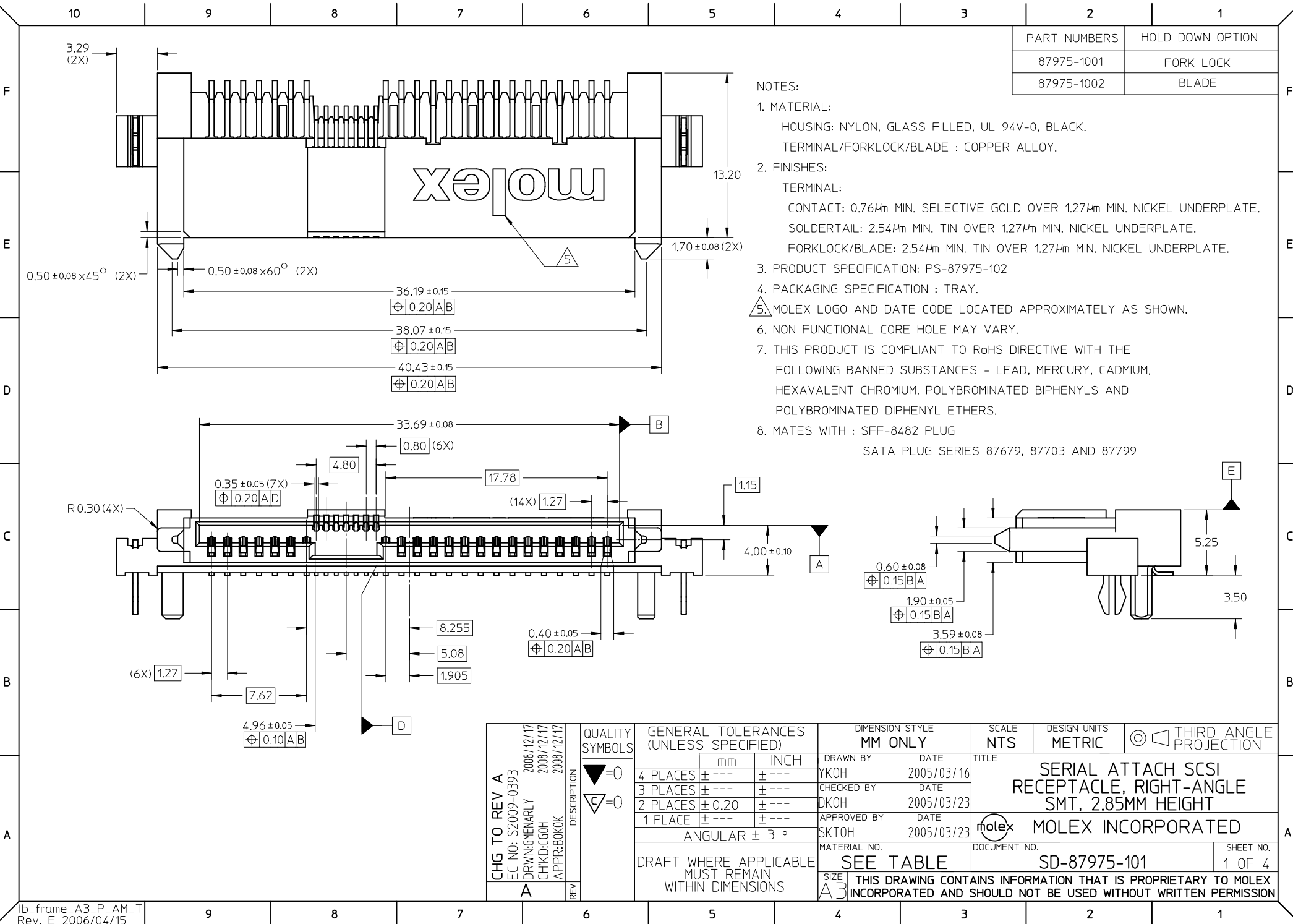
Mates With

[87679](#) , [87799](#) , [87703](#) , SFF 8482 Hard
Disk Drive and Backplane Plug

Termination Interface: Style	Surface Mount
Waterproof / Dustproof	No
Wire Size AWG	N/A
Electrical	
Current - Maximum per Contact	1.5A
Shielded	No
Voltage - Maximum	30V
Solder Process Data	
Duration at Max. Process Temperature (seconds)	10
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	
Product Specification	PS-87975-102
Sales Drawing	SD-87975-101

This document was generated on 04/09/2010

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PART NUMBERS	HOLD DOWN OPTION
87975-1001	FORK LOCK
87975-1002	BLADE

NOTES:

1. MATERIAL:

HOUSING: NYLON, GLASS FILLED, UL 94V-0, BLACK.

TERMINAL/FORKLOCK/BLADE : COPPER ALLOY.

2. FINISHES:

TERMINAL:

CONTACT: 0.76 μ m MIN. SELECTIVE GOLD OVER 1.27 μ m MIN. NICKEL UNDERPLATE.

SOLDERTAIL: 2.54 μ m MIN. TIN OVER 1.27 μ m MIN. NICKEL UNDERPLATE.

FORKLOCK/BLADE: 2.54 μ m MIN. TIN OVER 1.27 μ m MIN. NICKEL UNDERPLATE.

3. PRODUCT SPECIFICATION: PS-87975-102

4. PACKAGING SPECIFICATION : TRAY.

△ MOLEX LOGO AND DATE CODE LOCATED APPROXIMATELY AS SHOWN.

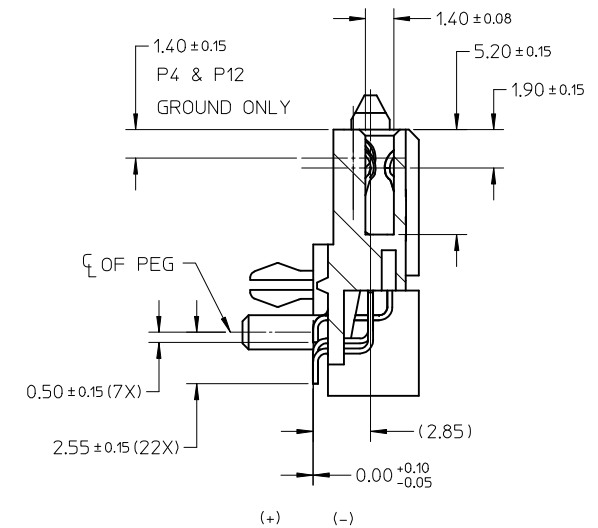
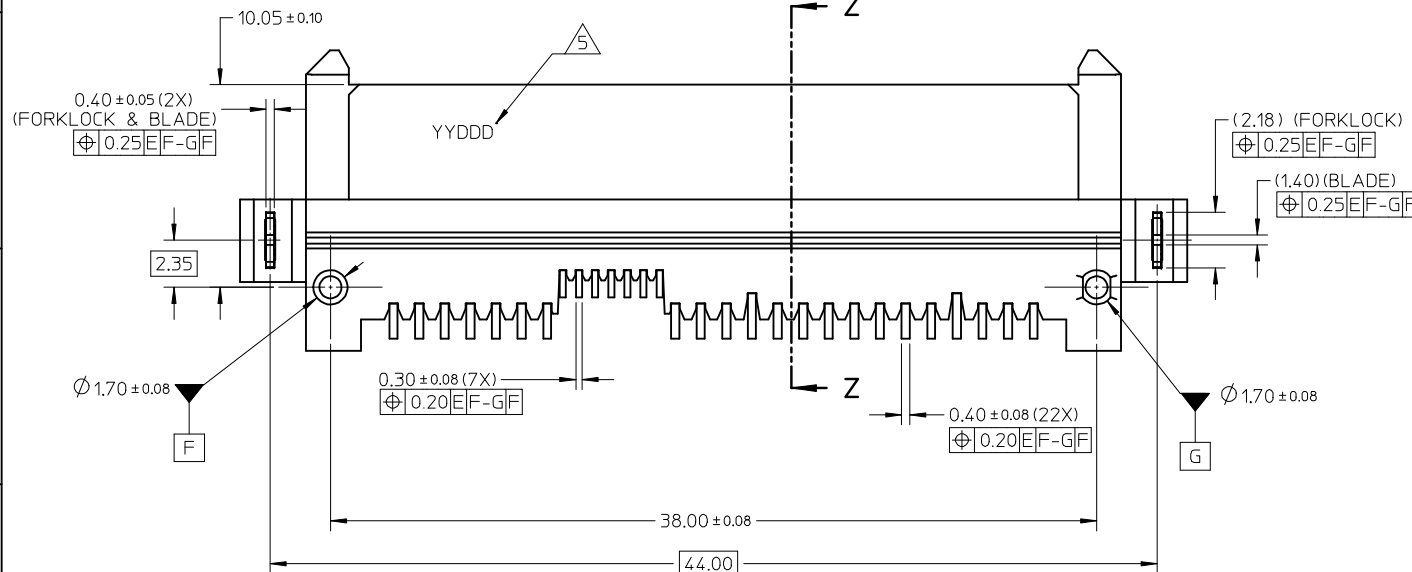
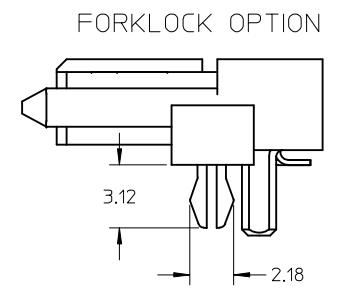
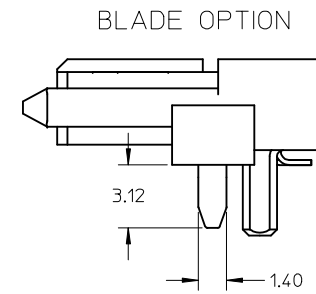
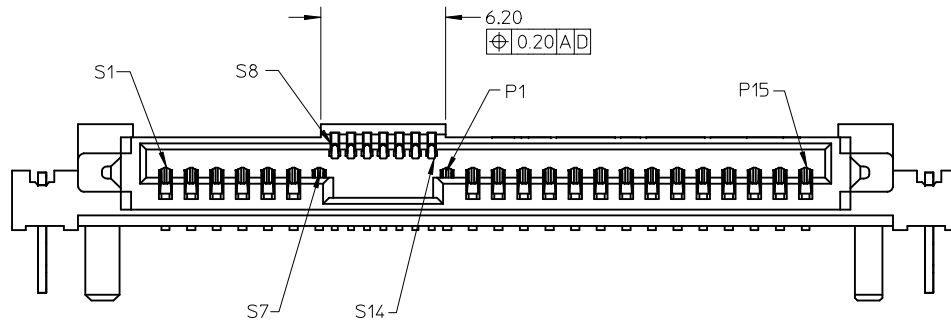
6. NON FUNCTIONAL CORE HOLE MAY VARY.

7. THIS PRODUCT IS COMPLIANT TO RoHS DIRECTIVE WITH THE FOLLOWING BANNED SUBSTANCES - LEAD, MERCURY, CADMIUM, HEXAVALENT CHROMIUM, POLYBROMINATED BIPHENYLS AND POLYBROMINATED DIPHENYL ETHERS.

8. MATES WITH : SFF-8482 PLUG

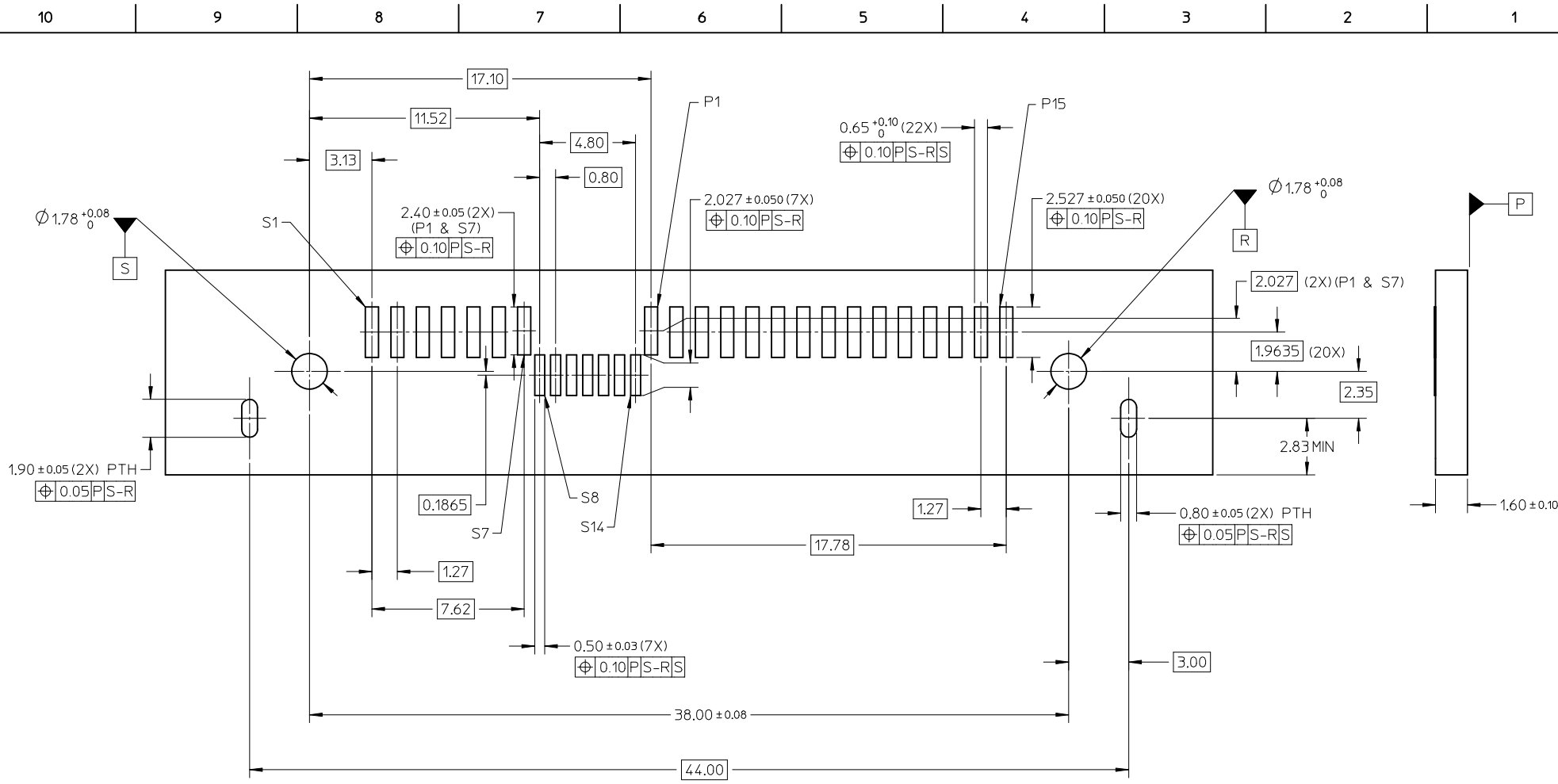
SATA PLUG SERIES 87679, 87703 AND 87799

CHG TO REV A EC NO: S2009-0393 DRWN:GEMARLY CHKD:GKH APPR:BOHOK 2008/12/17 2008/12/17 2008/12/17	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 YKOH	DATE 2005/03/16	TITLE SERIAL ATTACH SCSI RECEPTACLE, RIGHT-ANGLE SMT, 2.85MM HEIGHT						
			4 PLACES	± ---	± ---	CHECKED BY DKOH	DATE 2005/03/23							
			3 PLACES	± ---	± ---	APPROVED BY SKTOH		DATE 2005/03/23	MOLEX INCORPORATED					
			2 PLACES	± 0.20	± ---									
			1 PLACE	± ---	± ---	MATERIAL NO.		DOCUMENT NO.	SHEET NO. 1 OF 4					
			ANGULAR ± 3 °											
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SEE TABLE		SD-87975-101						
			A	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									



SECTION Z-Z

CHG TO REV A EC NO: S2009-0393 DRWN: MENARLY CHKD: CGOH APPR: BOKOK	REV A	DESCRIPTION	QUALITY SYMBOLS ▽=0 C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	TITLE SERIAL ATTACH SCSI RECEPTACLE, RIGHT-ANGLE SMT, 2.85MM HEIGHT MOLEX INCORPORATED SD-87975-101	SHEET NO. 2 OF 4				
						DRAWN BY YKOH		DATE 2005/03/16								
						CHECKED BY DKOH		DATE 2005/03/23								
						APPROVED BY SKTOH		DATE 2005/03/23								
						MATERIAL NO.		DOCUMENT NO.								
						SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								



RECOMMENDED PCB LAYOUT

CHG TO REV A EC NO: S2009-0393 DRWN:GEMARLY CHKD:CGOH APPR:BOKOK		2008/12/17 2008/12/17 2008/12/17		QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION			
							MM ONLY		NTS	METRIC				
							DRAWN BY DATE		TITLE					
							CHECKED BY DATE		SERIAL ATTACH SCSI					
				4 PLACES ± --- ± ---		YKOH 2005/03/16		RECEPTACLE, RIGHT-ANGLE						
				3 PLACES ± --- ± ---		DKOH 2005/03/23		SMT, 2.85MM HEIGHT						
				2 PLACES ± 0.20 ± ---		SKTOH 2005/03/23		MOLEX INCORPORATED						
				1 PLACE ± --- ± ---		APPROVED BY DATE		MOLEX						
				ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.				
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87975-101		3 OF 4				
A		REV				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

E

D

C

B

A

F

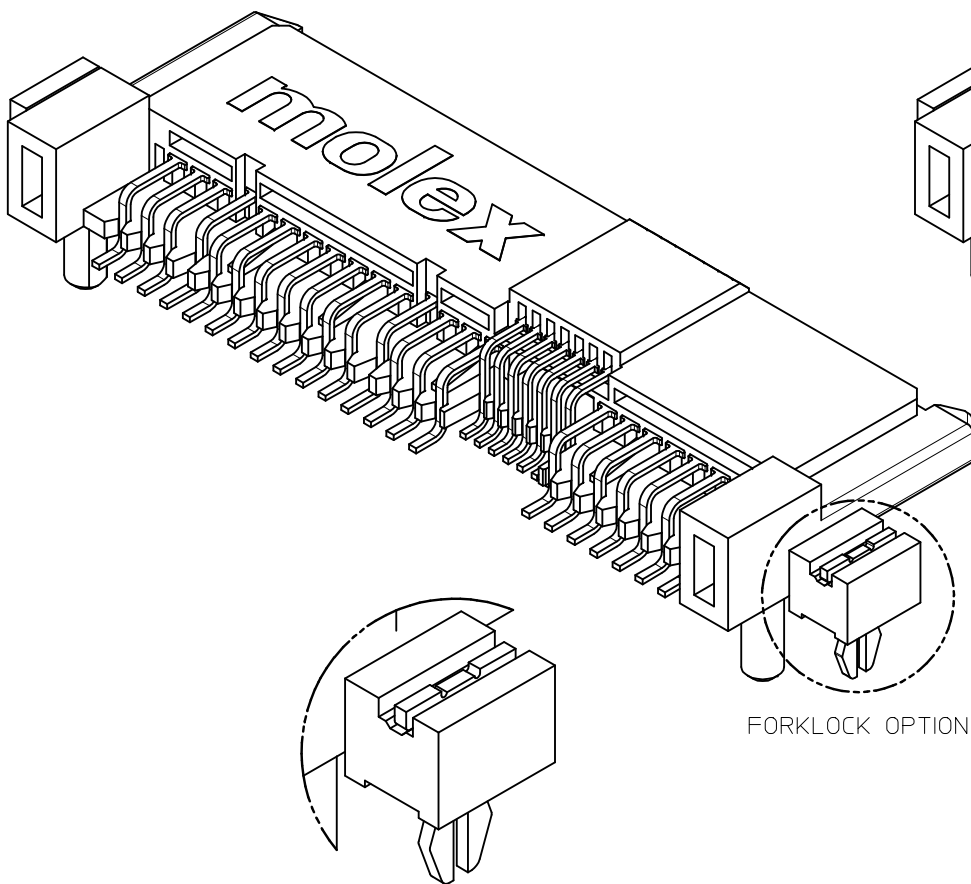
E

D

C

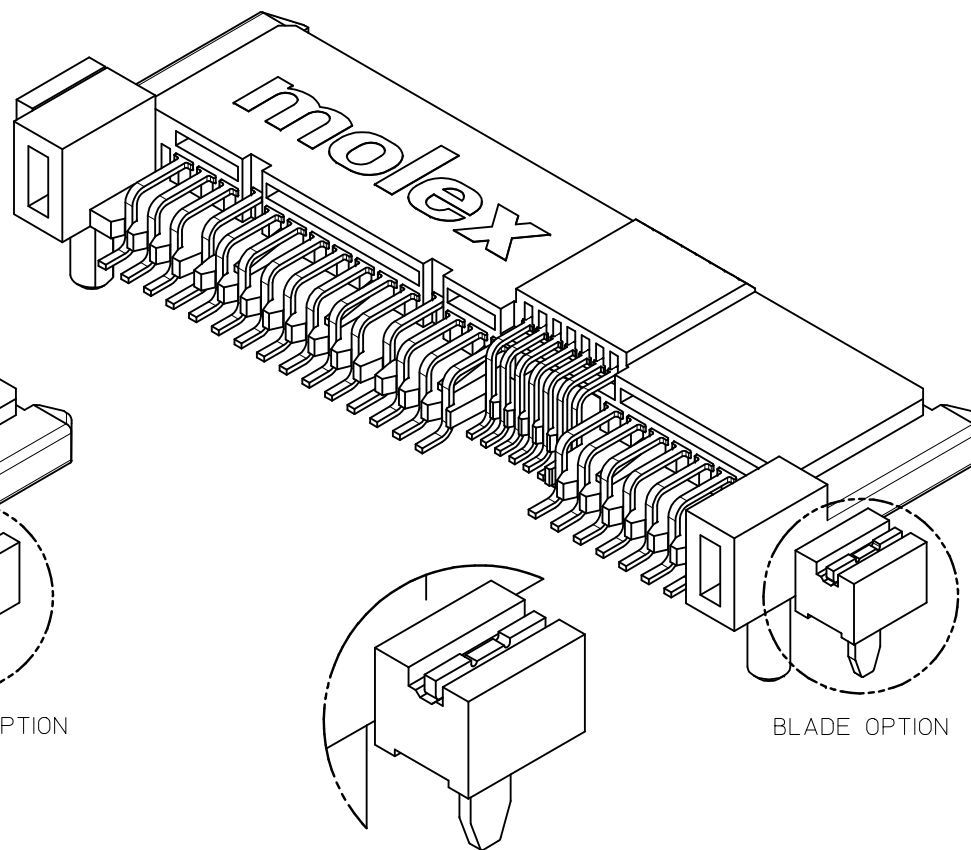
B

A



FORKLOCK OPTION

FORKLOCK OPTION



BLADE OPTION

BLADE OPTION

CHG TO REV A EC NO: S2009-0393 DRWNG:GEMARLY 2008/12/17 CHKD:CGOH 2008/12/17 APPR:BOKOK 2008/12/17 A			DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ◇=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
							DRAWN BY YKOH		DATE 2005/03/16		TITLE SERIAL ATTACH SCSI RECEPTACLE, RIGHT-ANGLE SMT, 2.85MM HEIGHT		
							CHECKED BY DKOH		DATE 2005/03/23				
							APPROVED BY SKTOH		DATE 2005/03/23		molex MOLEX INCORPORATED		
		MATERIAL NO.		DOCUMENT NO.		SHEET NO. 4 OF 4							
		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							

9 8 7 6 5 4 3 2 1



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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