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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

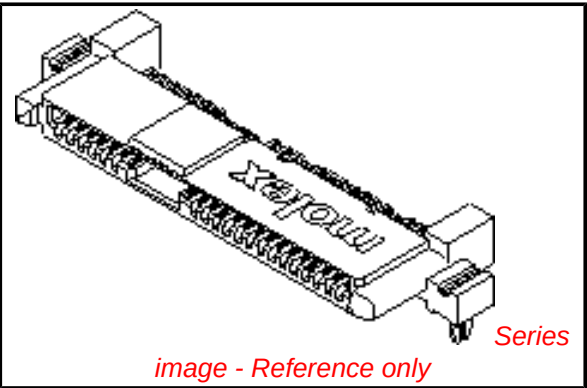


image - Reference only

EU RoHS

**ELV and RoHS
Compliant**

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

**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.

China RoHS



Search Parts in this Series

[87975Series](#)

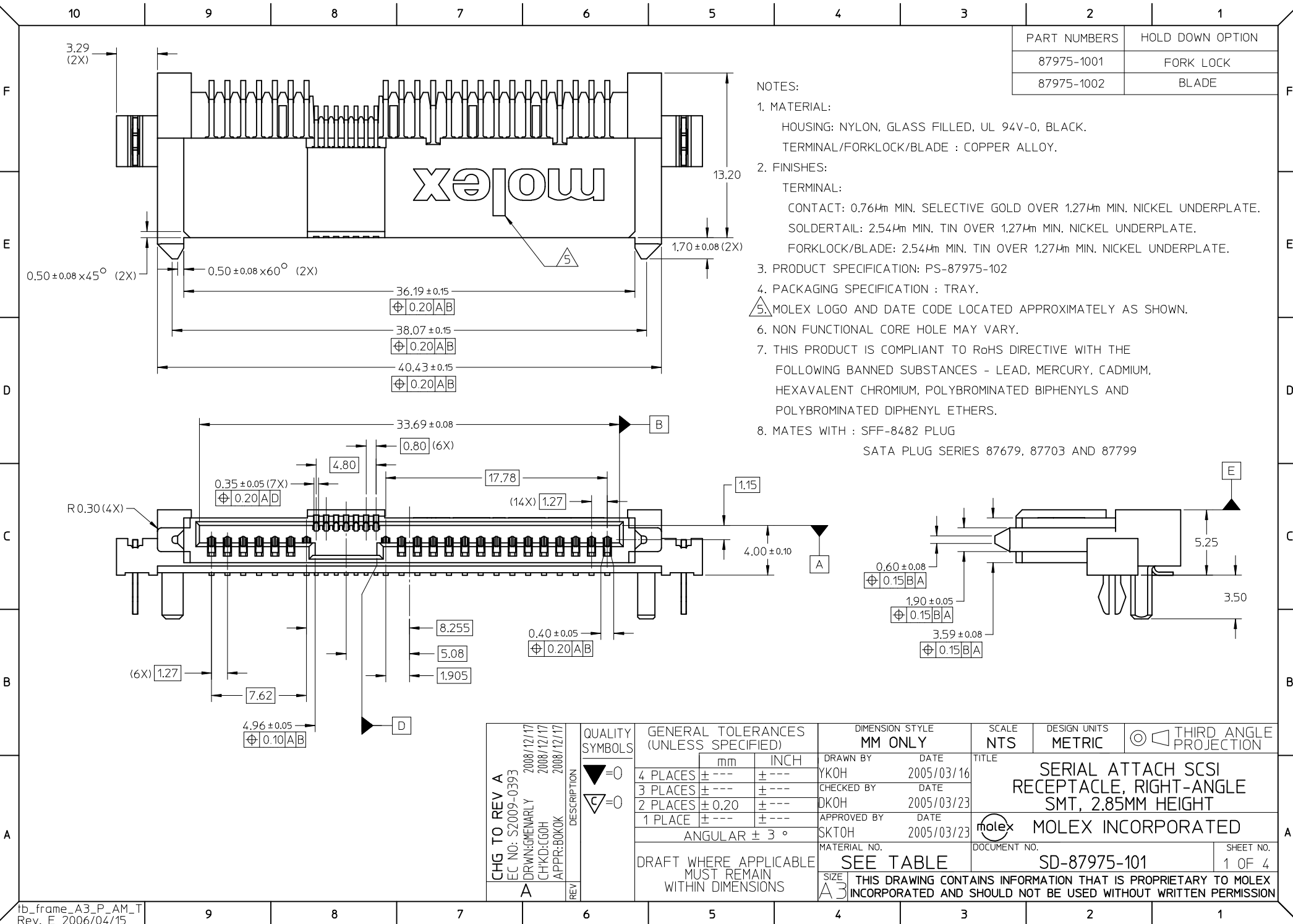
Mates With

[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

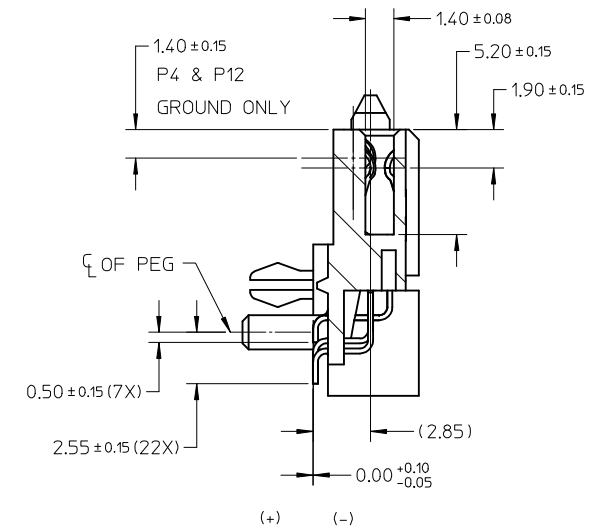
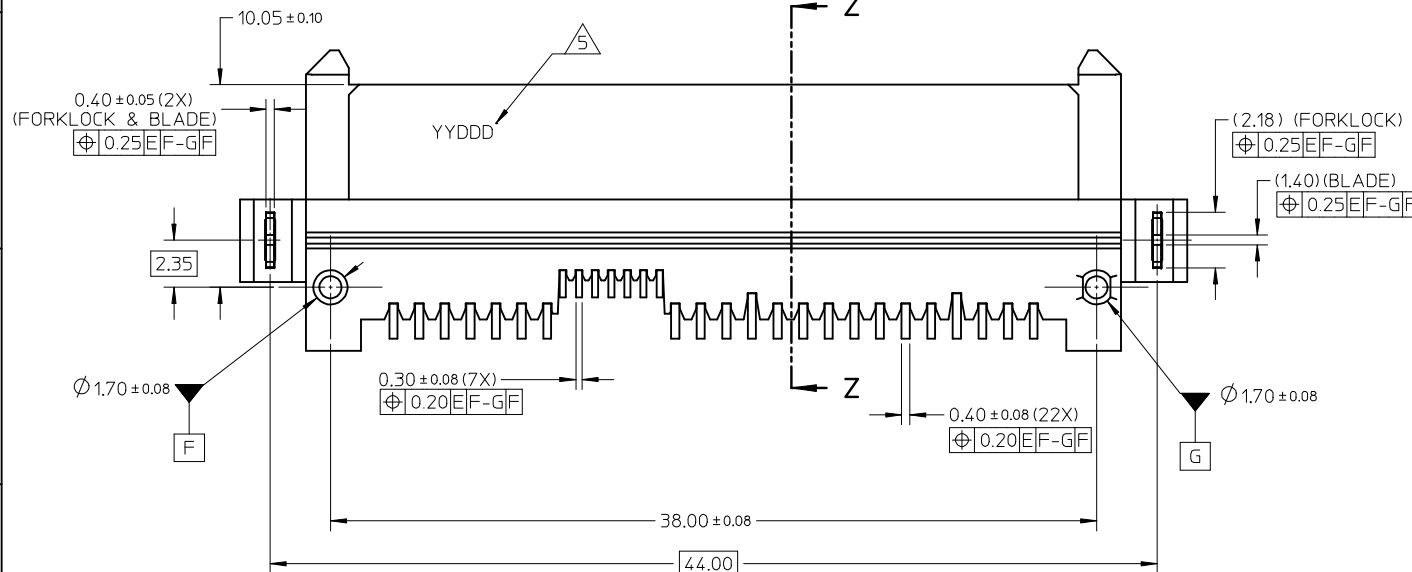
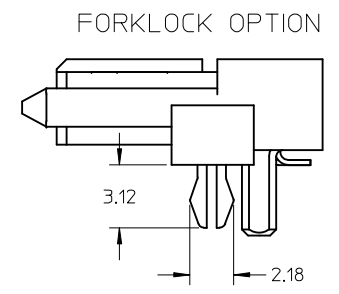
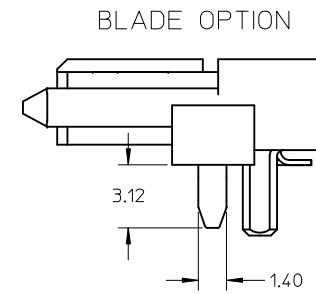
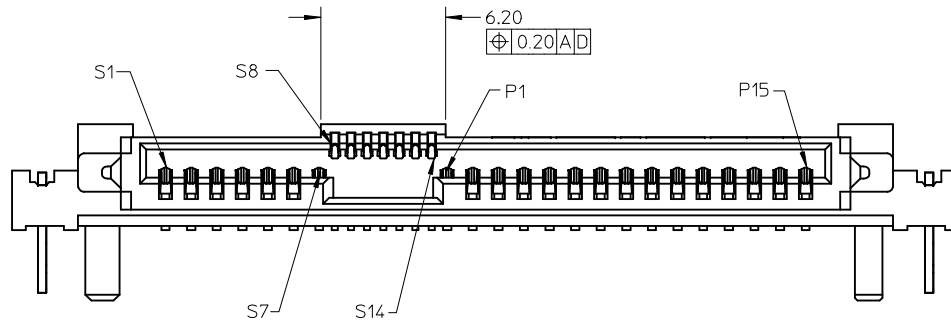
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PART NUMBERS	HOLD DOWN OPTION
87975-1001	FORK LOCK
87975-1002	BLADE

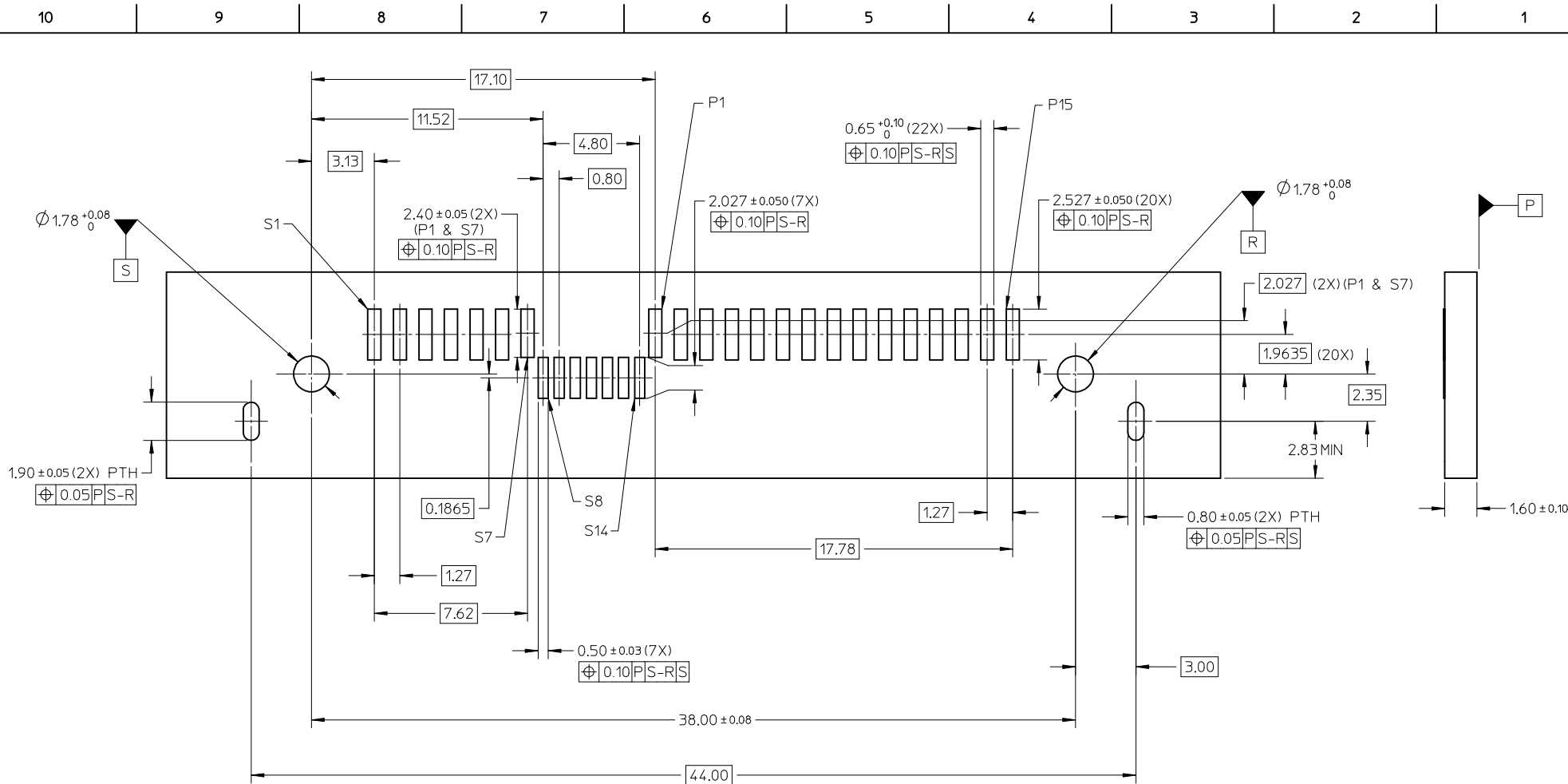
- NOTES:
- MATERIAL:
HOUSING: NYLON, GLASS FILLED, UL 94V-0, BLACK.
TERMINAL/FORKLOCK/BLADE : COPPER ALLOY.
 - FINISHES:
TERMINAL:
CONTACT: 0.76µm MIN. SELECTIVE GOLD OVER 1.27µm MIN. NICKEL UNDERPLATE.
SOLDERTAIL: 2.54µm MIN. TIN OVER 1.27µm MIN. NICKEL UNDERPLATE.
FORKLOCK/BLADE: 2.54µm MIN. TIN OVER 1.27µm MIN. NICKEL UNDERPLATE.
 - PRODUCT SPECIFICATION: PS-87975-102
 - PACKAGING SPECIFICATION : TRAY.
 - MOLEX LOGO AND DATE CODE LOCATED APPROXIMATELY AS SHOWN.
 - NON FUNCTIONAL CORE HOLE MAY VARY.
 - THIS PRODUCT IS COMPLIANT TO RoHS DIRECTIVE WITH THE FOLLOWING BANNED SUBSTANCES - LEAD, MERCURY, CADMIUM, HEXAVALENT CHROMIUM, POLYBROMINATED BIPHENYLS AND POLYBROMINATED DIPHENYL ETHERS.
 - 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:BOKOK A	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	SERIAL ATTACH SCSI RECEPTACLE, RIGHT-ANGLE SMT, 2.85MM HEIGHT MOLEX INCORPORATED SD-87975-101	SHEET NO. 1 OF 4		
				mm	INCH	DRAWN BY YKOH	DATE 2005/03/16	TITLE					
			4 PLACES	± ---	± ---	CHECKED BY	DATE						
			3 PLACES	± ---	± ---	DKOH	2005/03/23						
			2 PLACES	± 0.20	± ---	APPROVED BY	DATE						
			1 PLACE	± ---	± ---	SKTOH	2005/03/23	DOCUMENT NO.				MOLEX INCORPORATED	
			ANGULAR ± 3 °		MATERIAL NO.								
			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							



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	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.						
						SEE TABLE		SD-87975-101						



RECOMMENDED PCB LAYOUT

CHG TO REV A EC NO: S2009-0393 DRWNG: MENARLY CHKD: CGOH APPR: BOKOK			2008/12/17 2008/12/17 2008/12/17			QUALITY SYMBOLS ▽=0 ◇=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mmINCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± 0.20 ± --- 1 PLACE ± --- ± --- ANGULAR ± 3 °		DIMENSION STYLE MM ONLY DRAWN BY YKOH CHECKED BY DKOH APPROVED BY SKTOH MATERIAL NO. SEE TABLE		SCALE NTS		DESIGN UNITS METRIC		THIRD ANGLE PROJECTION SERIAL ATTACH SCSI RECEPTACLE, RIGHT-ANGLE SMT, 2.85MM HEIGHT MOLEX INCORPORATED	
A			REV			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		DOCUMENT NO. SD-87975-101		SHEET NO. 3 OF 4		

10 9 8 7 6 5 4 3 2 1

F

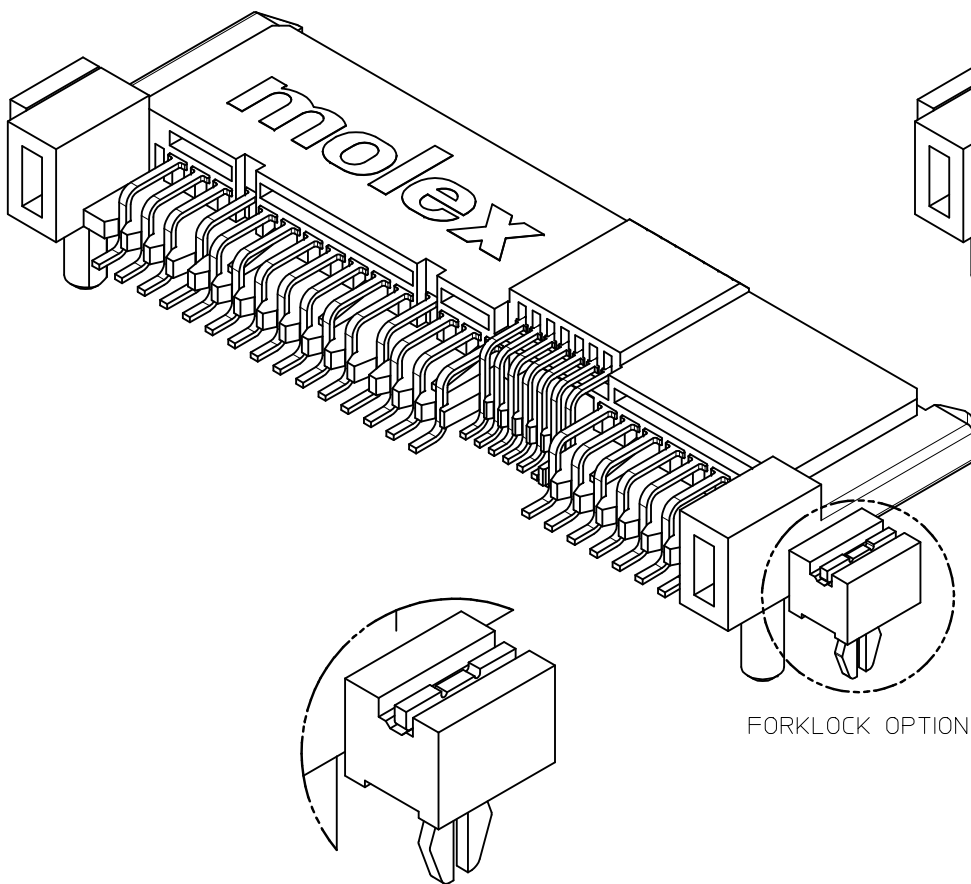
E

D

C

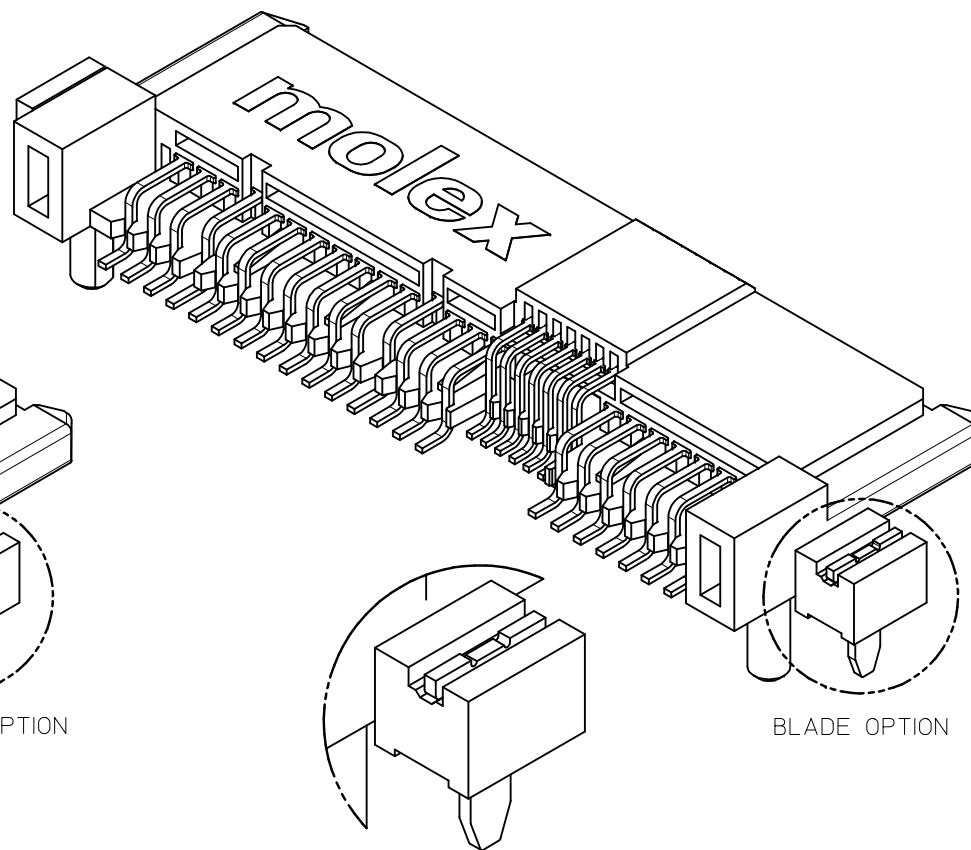
B

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	
				ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.						
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87975-101						
						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

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- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
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- Комплексную поставку.
- Работу по проектам и поставку образцов.
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- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
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