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Part Number: [0879751002](#)
Status: **Active**
Description: 1.27mm (.050") Signal Pitch, 0.80mm (.031") SCSI Pitch, 1.27mm (.050") Power Pitch
SAS Receptacle, Right Angle, Surface Mount, with Straight Solder Tab, "Z" Height of
2.85mm (.112"), 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
PC Tail Length (in)	0.000 In
PC Tail Length (mm)	0.00 mm
PCB Locator	Yes
PCB Retention	Yes
PCB Thickness Recommended (in)	0.063 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

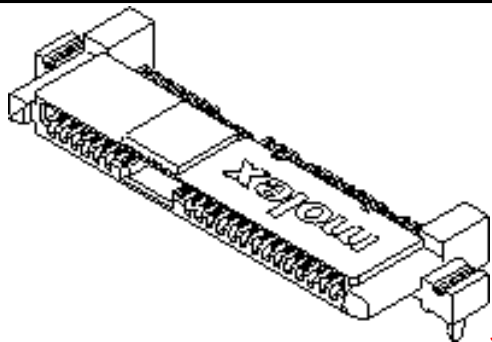


image - Reference only

Series

EU RoHS

**ELV and RoHS
Compliant**

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Halogen-Free

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](#)

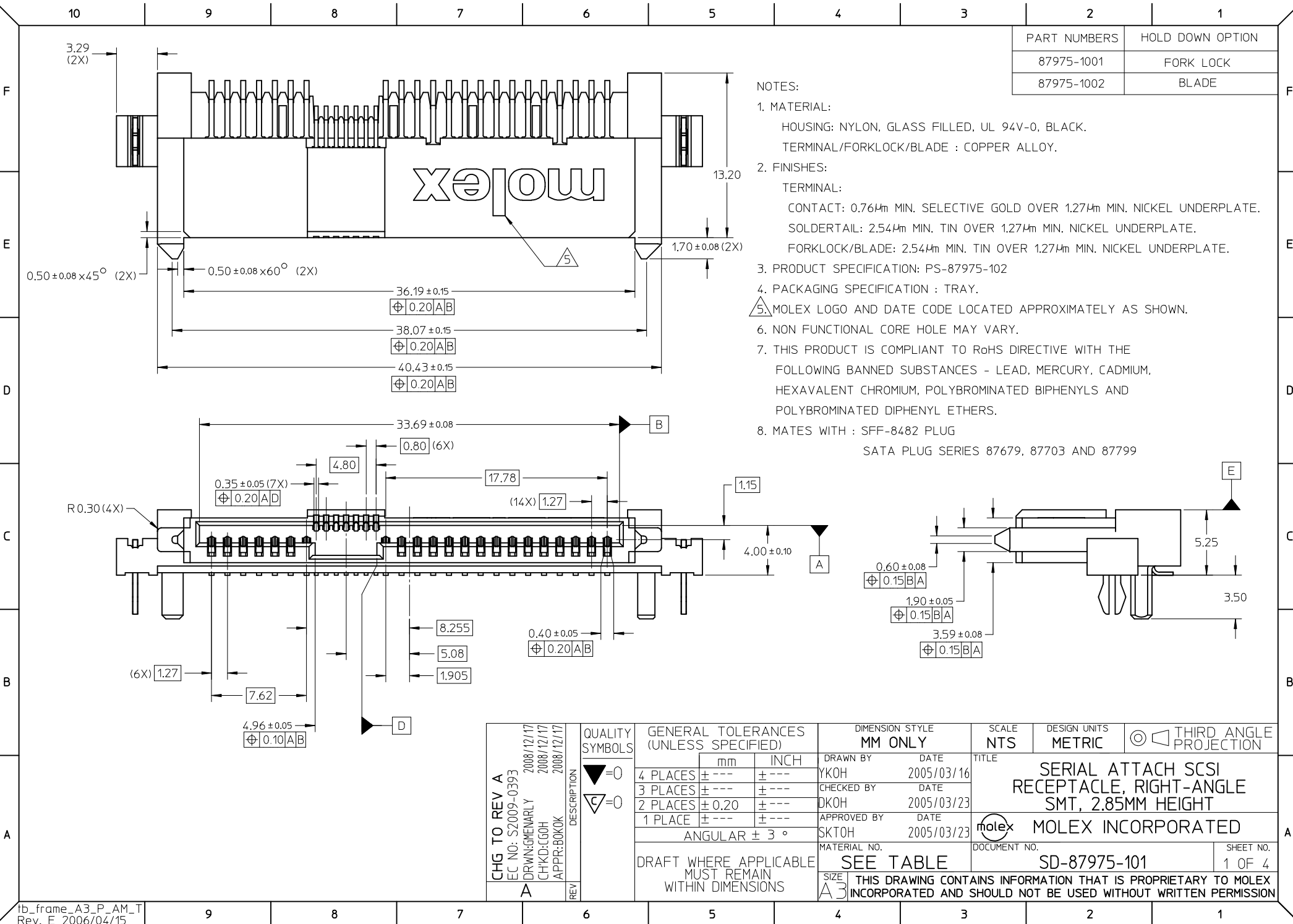
Mates With

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

Surface Mount Compatible (SMC)	N/A
Temperature Range - Operating	0°C to +55°C
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

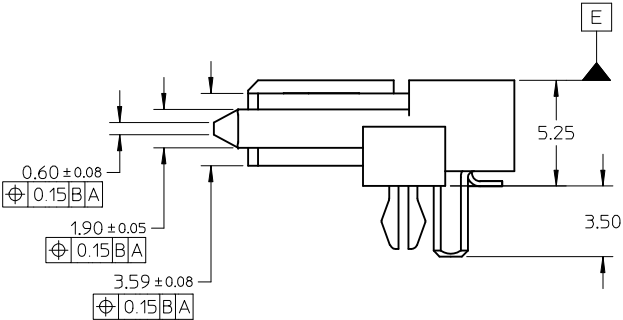
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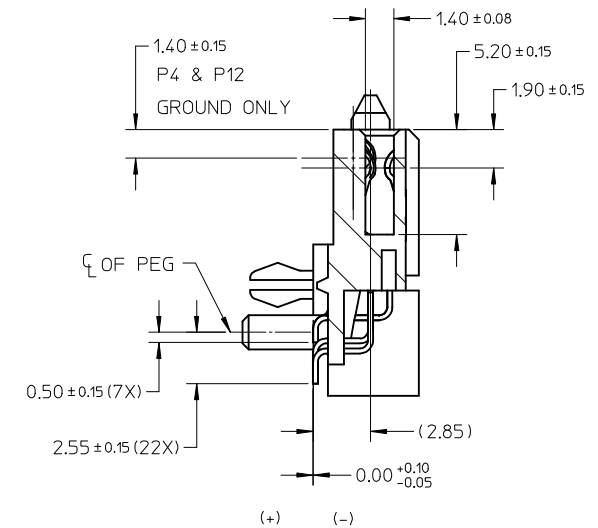
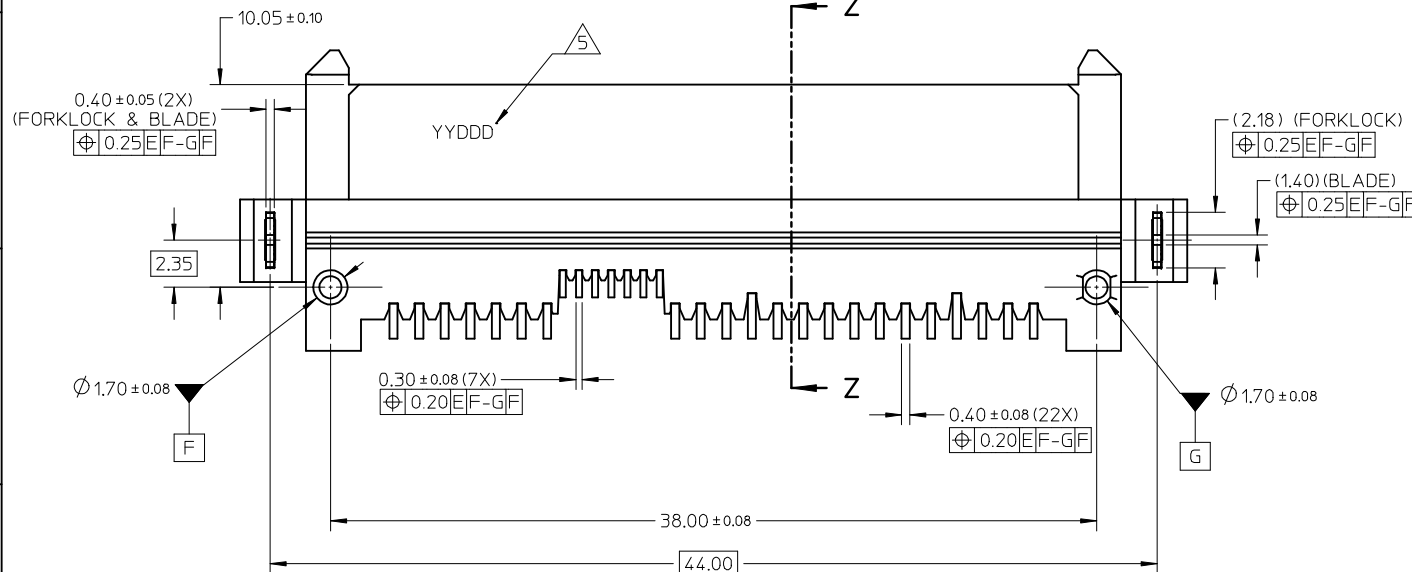
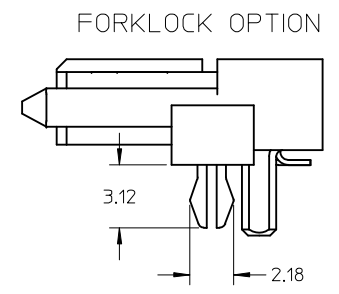
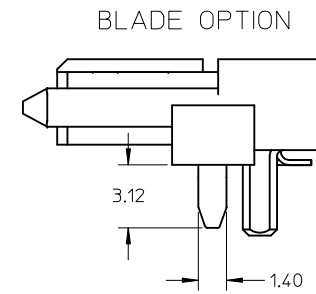
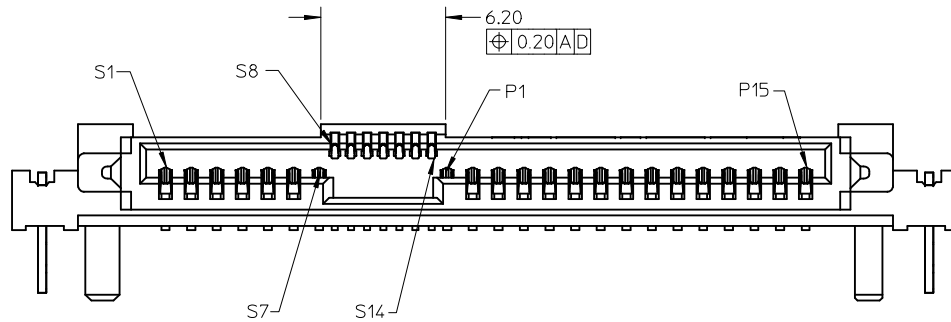


PART NUMBERS	HOLD DOWN OPTION
87975-1001	FORK LOCK
87975-1002	BLADE

- 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

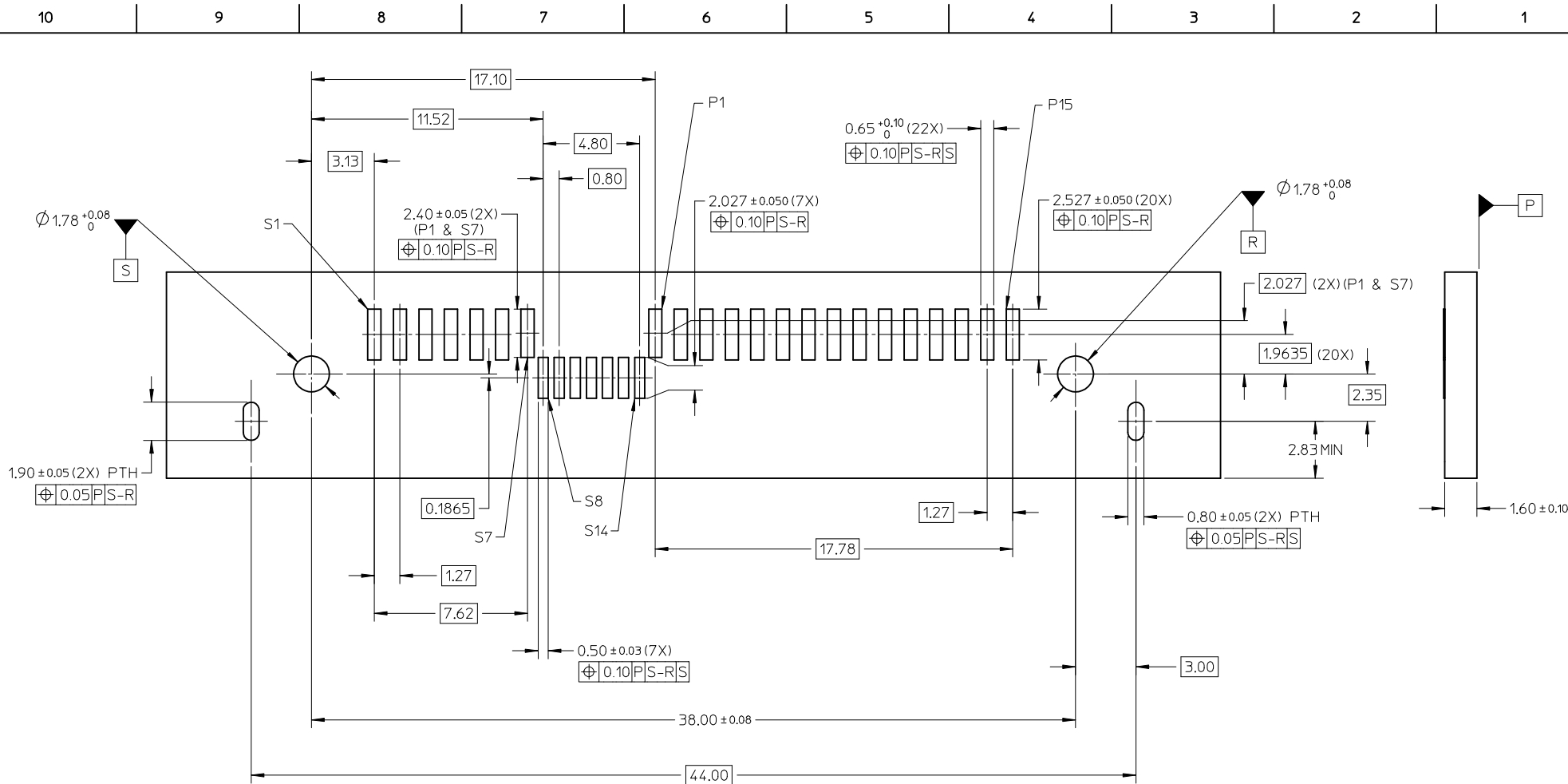


CHG TO REV A EC NO: S2009-0393 DRWN:GEMARLY CHKD:GKH APPR:BOHOK 2008/12/17 2008/12/17 2008/12/17	DESCRIPTION	QUALITY SYMBOLS ▽=0 C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION				
			mm	INCH	DRAWN BY YKOH	DATE 2005/03/16	TITLE 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 MOLEX INCORPORATED				
			2 PLACES	± 0.20	± ---	MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-87975-101					
			1 PLACE	± ---	± ---	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							
			ANGULAR ± 3 °										
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS													



SECTION Z-Z

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

F

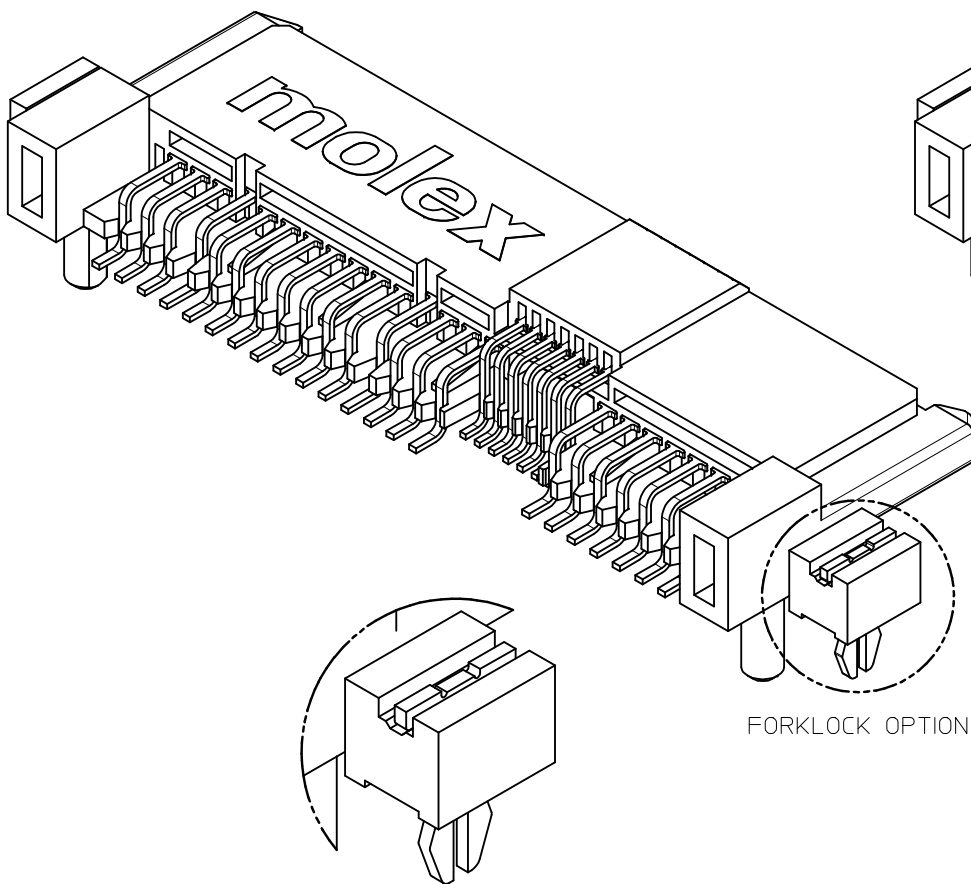
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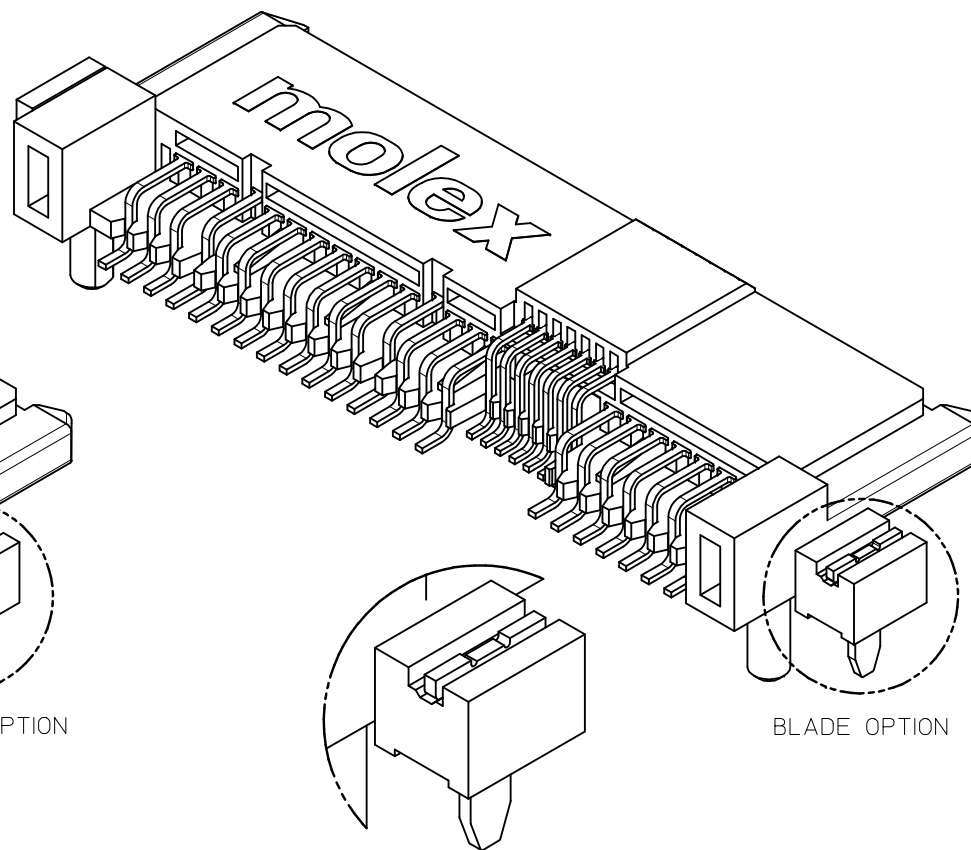
B

A



FORKLOCK OPTION

FORKLOCK OPTION



BLADE OPTION

BLADE OPTION

CHG TO REV A EC NO: S2009-0393 DRWN:GEMARLY 2008/12/17 CHKD:CGOH 2008/12/17 APPR:BOKOK 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 MOLEX INCORPORATED		
						4 PLACES ± --- ± ---		CHECKED BY DKOH		DATE 2005/03/23				
						3 PLACES ± --- ± ---		APPROVED BY SKTOH		DATE 2005/03/23				
2 PLACES ± 0.20 ± ---		1 PLACE ± --- ± ---		ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE A3		SEE TABLE		SD-87975-101		4 OF 4			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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- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
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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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- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
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- 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.)

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

«FORSTAR» (основан в 1998 г.)

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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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