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Part Number: [0879450002](#)
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 7.07mm (.278"), with
Straight Solder Tab, 29 Circuits, Lead free

Documents:

3D Model	Product Specification PS-87945-034 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	I/O Connectors
Series	87945
Application	Board-to-Board
Comments	Solder Tab (Blade) hold-down, no pick and place cap "Z" Height - 7.07mm (.278")
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 - Metal	Phosphor Bronze
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

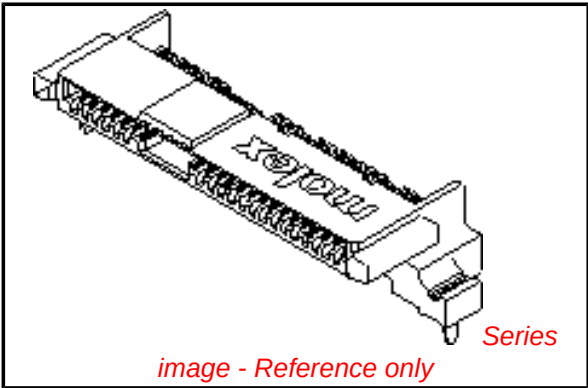


image - Reference only

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

[87945Series](#)

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

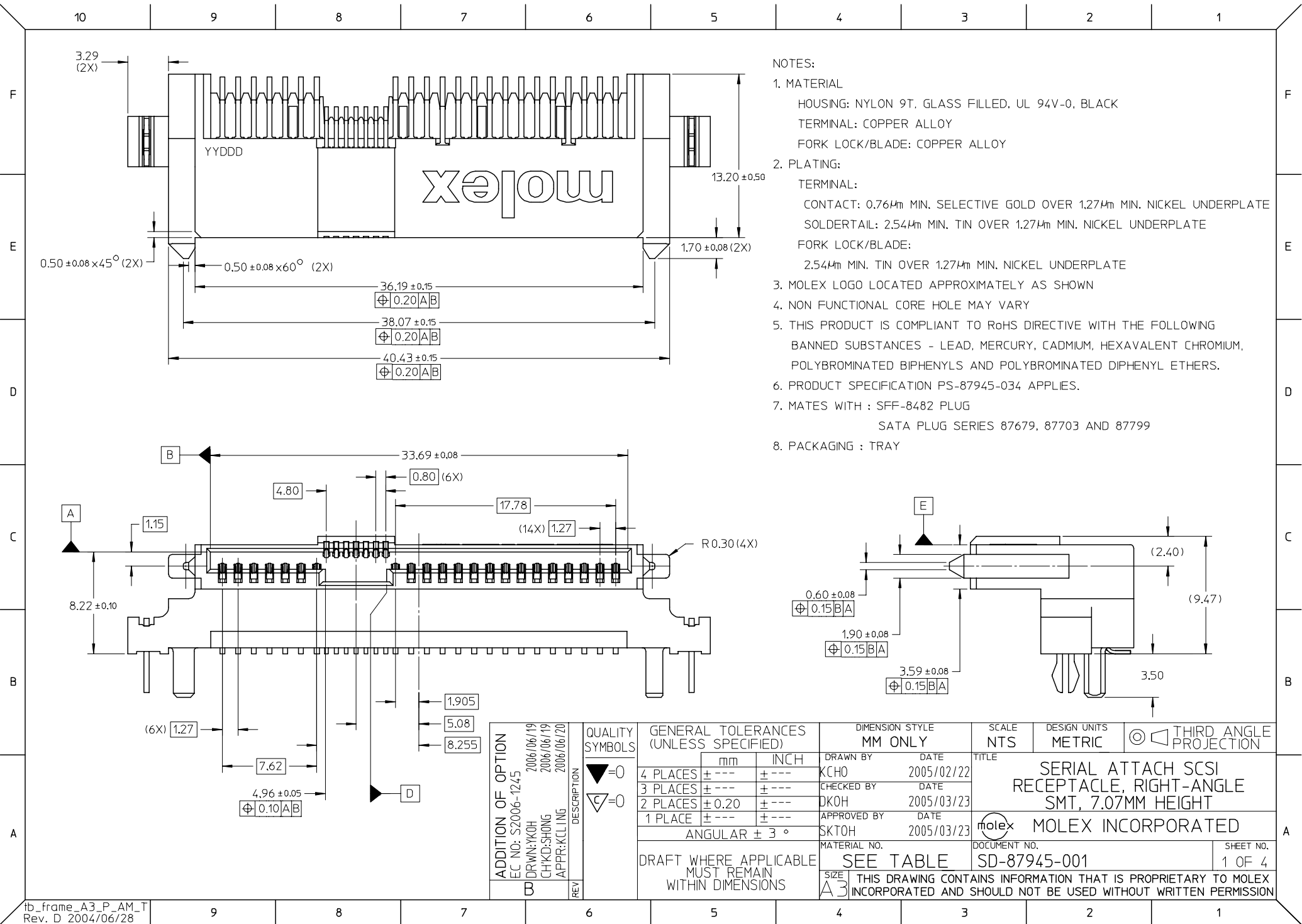
Material Info

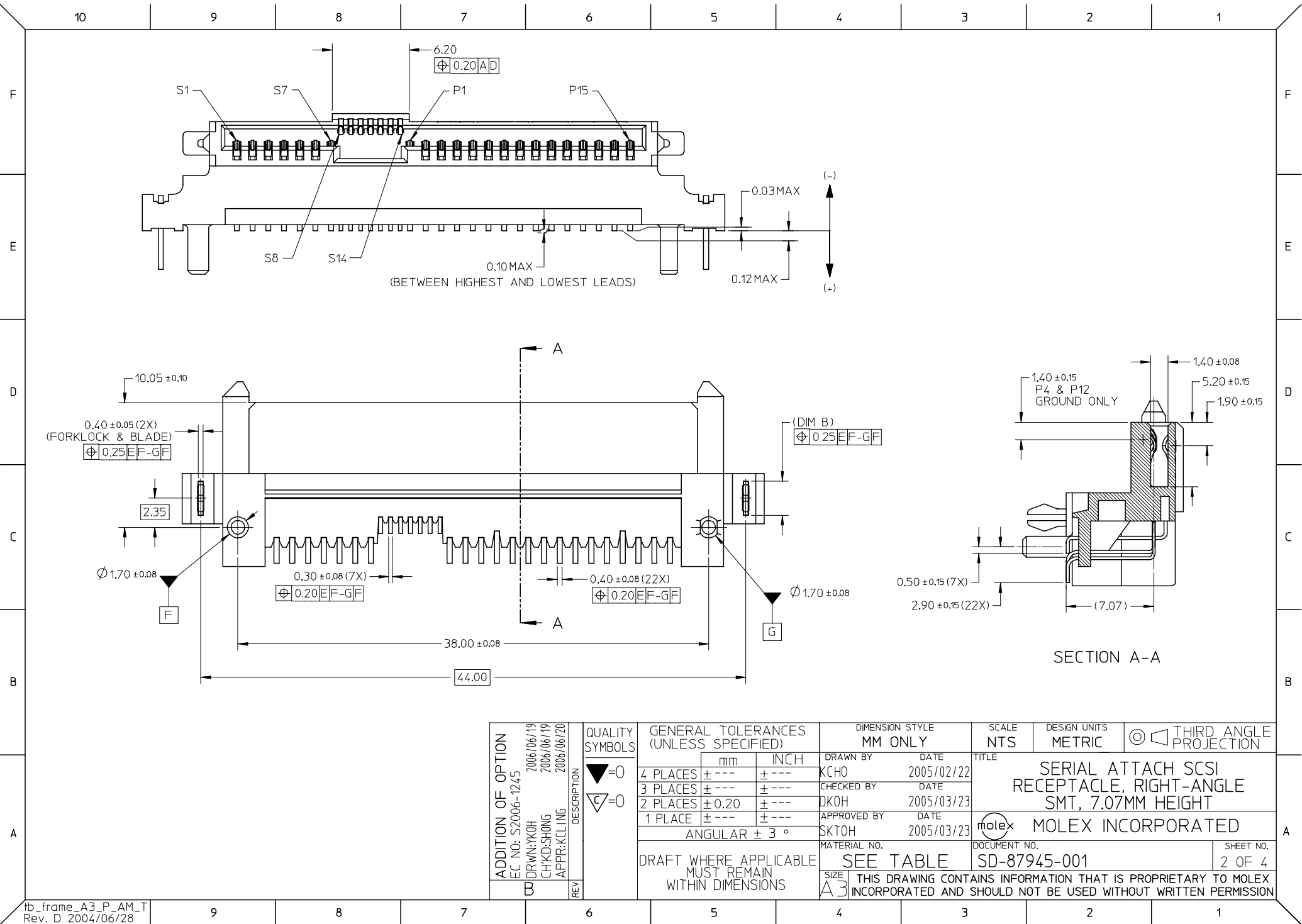
Reference - Drawing Numbers

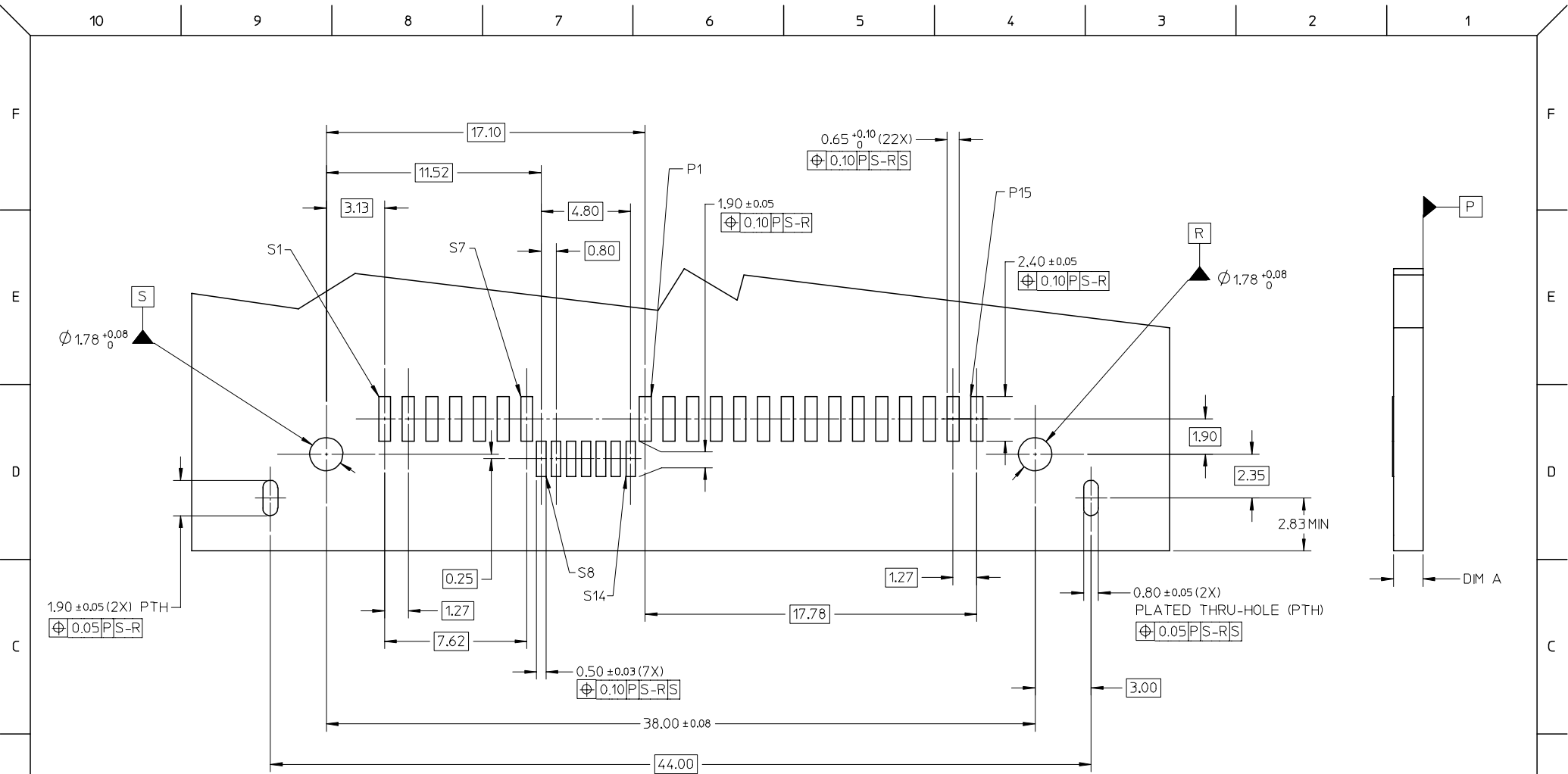
Product Specification	PS-87945-034
Sales Drawing	SD-87945-001

This document was generated on 04/09/2010

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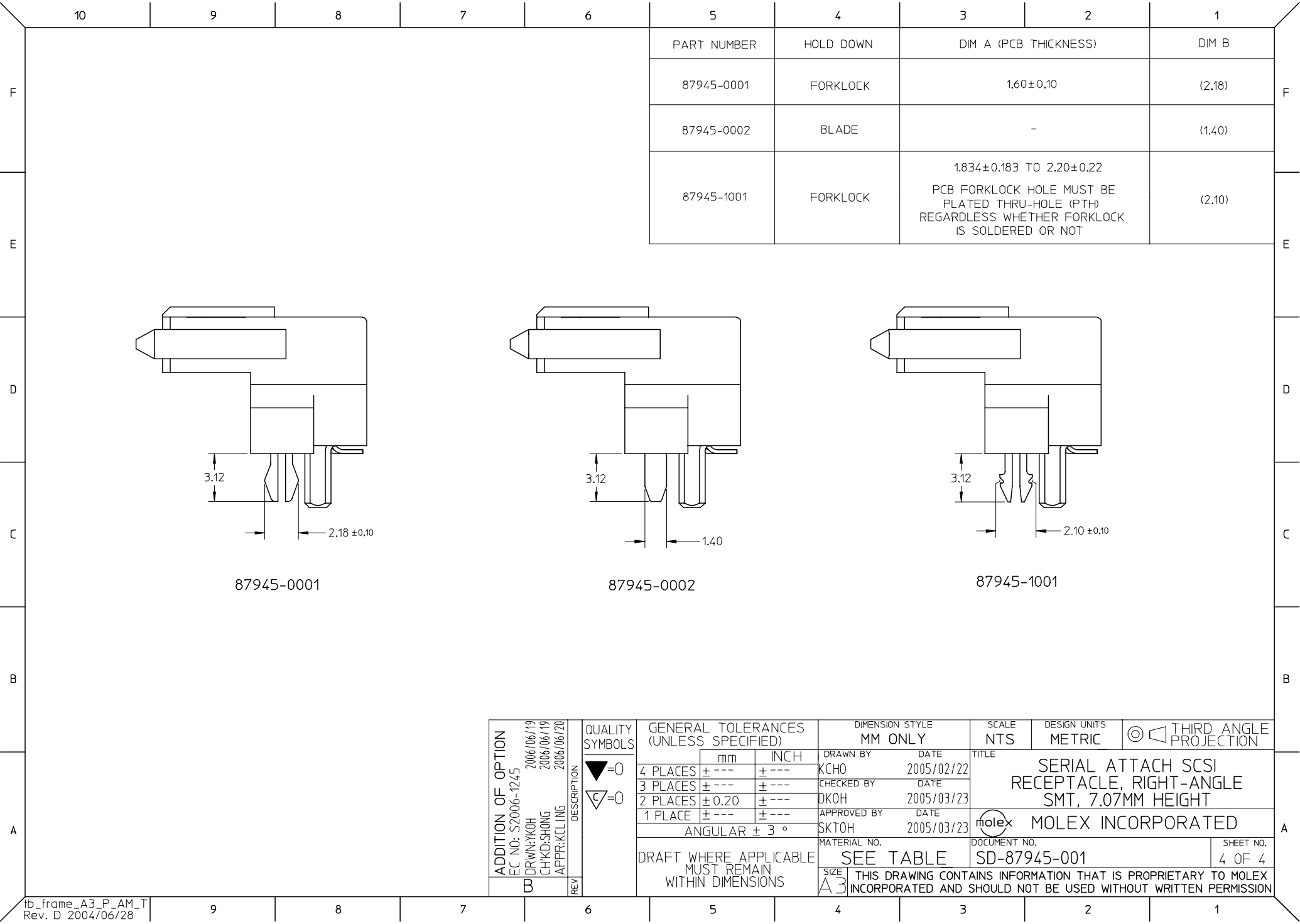




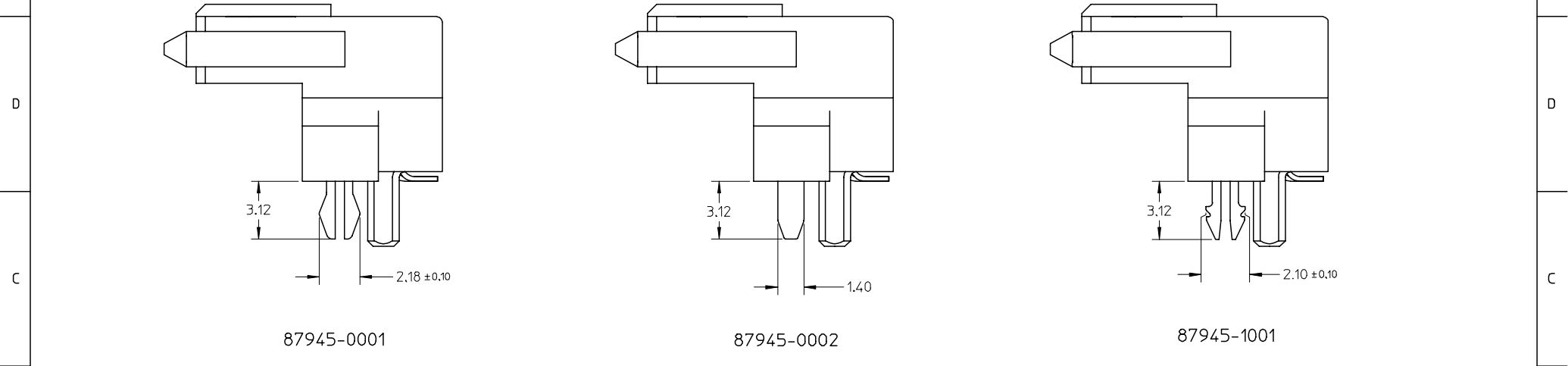


RECOMMENDED PCB LAYOUT

ADDITION OF OPTION EC NO: S2006-1245 DRWN:YKH CHKD:SHH APPR:KCLING B	REV	DESCRIPTION 2006/06/19 2006/06/19 2006/06/20	QUALITY SYMBOLS ▽=0 ▽C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
						DRAWN BY KCHO		DATE 2005/02/22	TITLE SERIAL ATTACH SCSI RECEPTACLE, RIGHT-ANGLE SMT, 7.07MM HEIGHT			
						CHECKED BY DKOH		DATE 2005/03/23				
						APPROVED BY SKTOH		DATE 2005/03/23				
				1 PLACE ± --- ± ---				MOLEX MOLEX INCORPORATED				
				ANGULAR ± 3 °		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SD-87945-001		3 OF 4		
						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						PART NUMBER	HOLD DOWN	DIM A (PCB THICKNESS)		DIM B	F
						87945-0001	FORKLOCK	1.60±0.10		(2.18)	
						87945-0002	BLADE	-		(1.40)	
						87945-1001	FORKLOCK	1.834±0.183 TO 2.20±0.22 PCB FORKLOCK HOLE MUST BE PLATED THRU-HOLE (PTH) REGARDLESS WHETHER FORKLOCK IS SOLDERED OR NOT		(2.10)	
E											E



A	ADDITION OF OPTION EC NO: S2006-1245 DRWN:YKH CHKD:SHONG APPR:KCLING				DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE NTS	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		A
	mm		INCH				DRAWN BY KCHO		DATE 2005/02/22		TITLE SERIAL ATTACH SCSI RECEPTACLE, RIGHT-ANGLE SMT, 7.07MM HEIGHT MOLEX INCORPORATED				
	4 PLACES ± ---		± ---				CHECKED BY		DATE						
	3 PLACES ± ---		± ---				DKOH		2005/03/23						
	2 PLACES ± 0.20		± ---				APPROVED BY		DATE						
1 PLACE ± ---		± ---		SKTOH		2005/03/23		molex							
ANGULAR ± 3 °				MATERIAL NO.		DOCUMENT NO.		SHEET NO.							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				SEE TABLE		SD-87945-001		4 OF 4							
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Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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