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**Part Number:** [0879450001](#)  
**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  
Beveled Metal Pins, PCB Thickness 1.60mm (.063"), 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 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  
Surface Mount Compatible (SMC) N/A

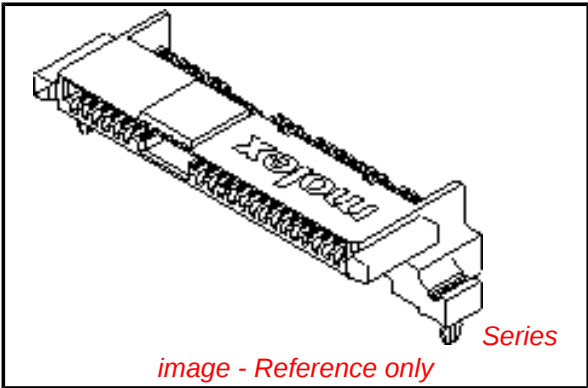


image - Reference only

**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](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**

[87945Series](#)

**Mates With**

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

|                               |               |
|-------------------------------|---------------|
| 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                       |

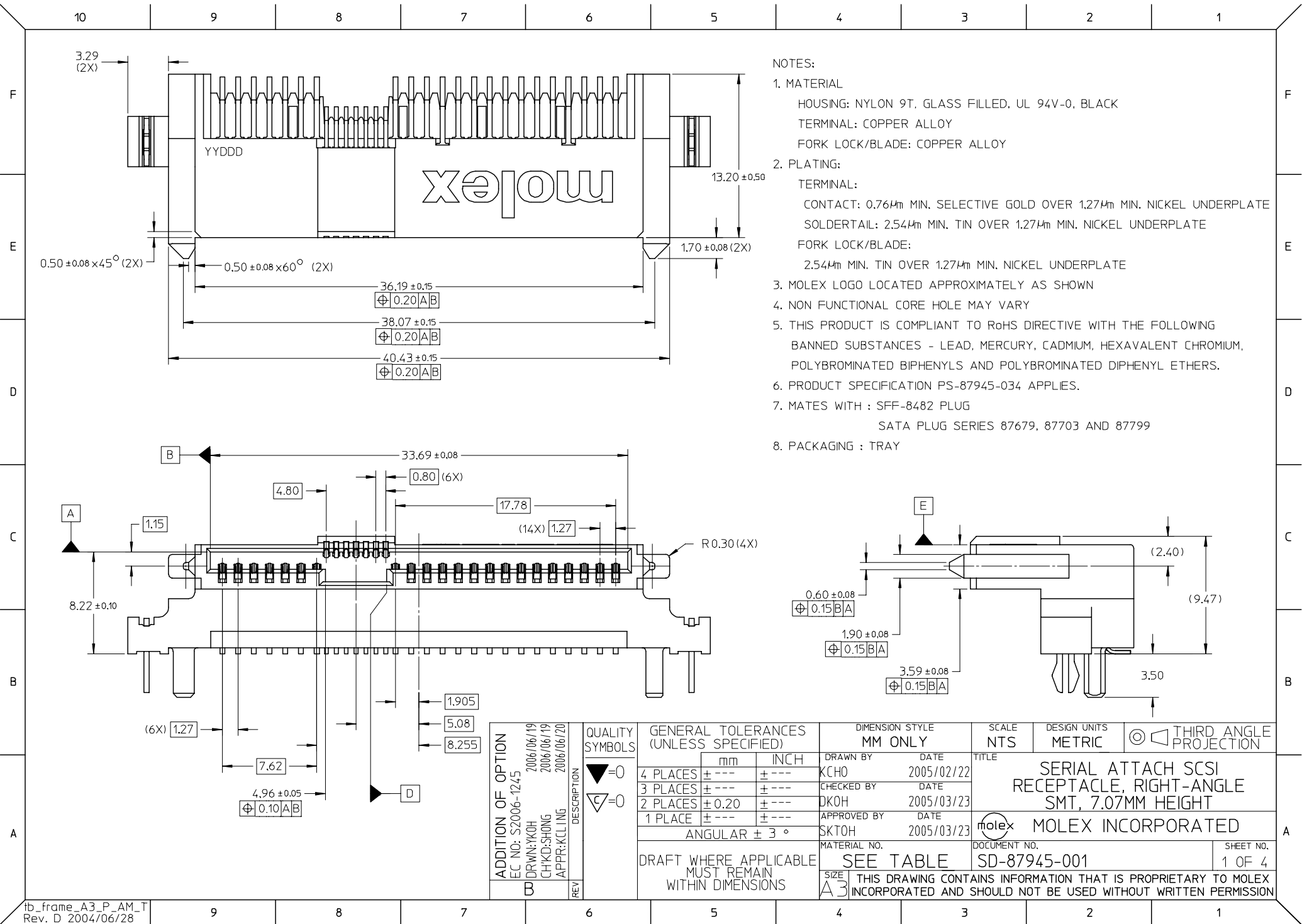
**Material Info**

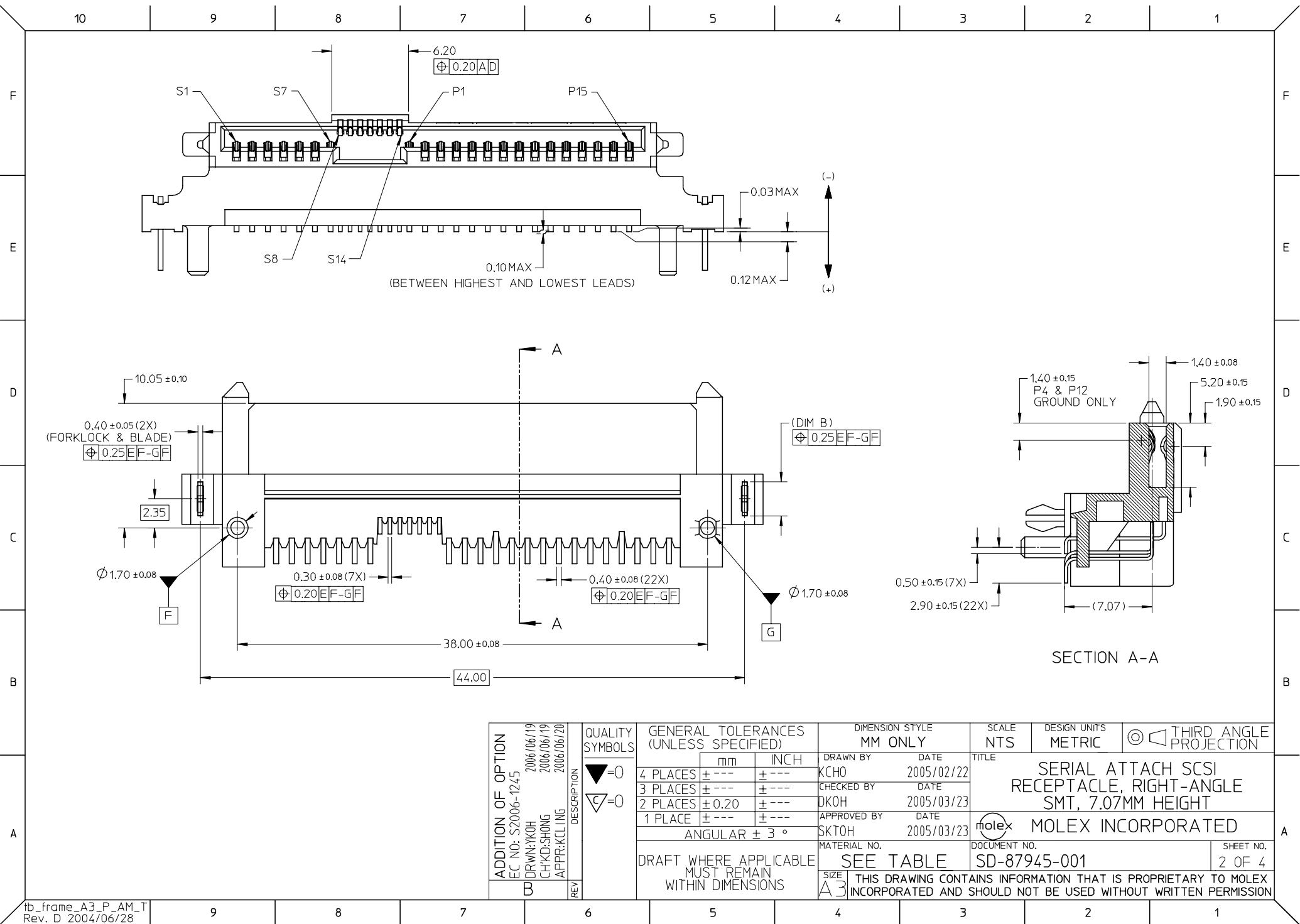
**Reference - Drawing Numbers**

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

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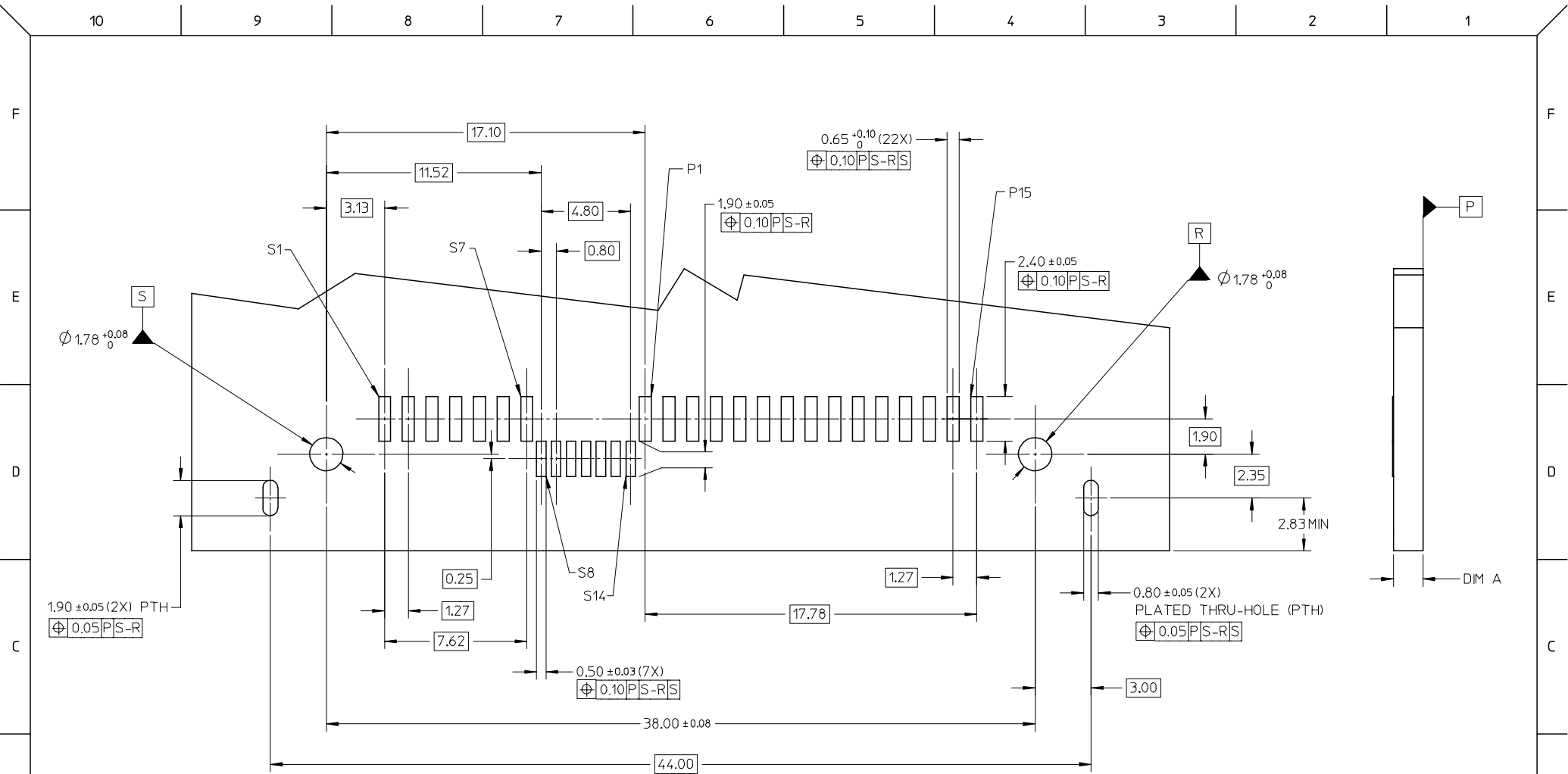
|                                                                                  |             |
|----------------------------------------------------------------------------------|-------------|
| ADDITION OF OPTION<br>EC NO: S2006-1245<br>DRWN:YKH<br>CHKD:SHONG<br>APPR:KCLING | 2006/06/19  |
|                                                                                  | 2006/06/19  |
|                                                                                  | 2006/06/20  |
|                                                                                  | 2006/06/20  |
| REV                                                                              | DESCRIPTION |
| B                                                                                |             |

|                 |
|-----------------|
| QUALITY SYMBOLS |
| ▽=0             |
| ▽=0             |

|                                                      |        |
|------------------------------------------------------|--------|
| GENERAL TOLERANCES (UNLESS SPECIFIED)                |        |
|                                                      |        |
| 4 PLACES                                             | ± ---  |
| 3 PLACES                                             | ± ---  |
| 2 PLACES                                             | ± 0.20 |
| 1 PLACE                                              | ± ---  |
| ANGULAR ± 3 °                                        |        |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |        |

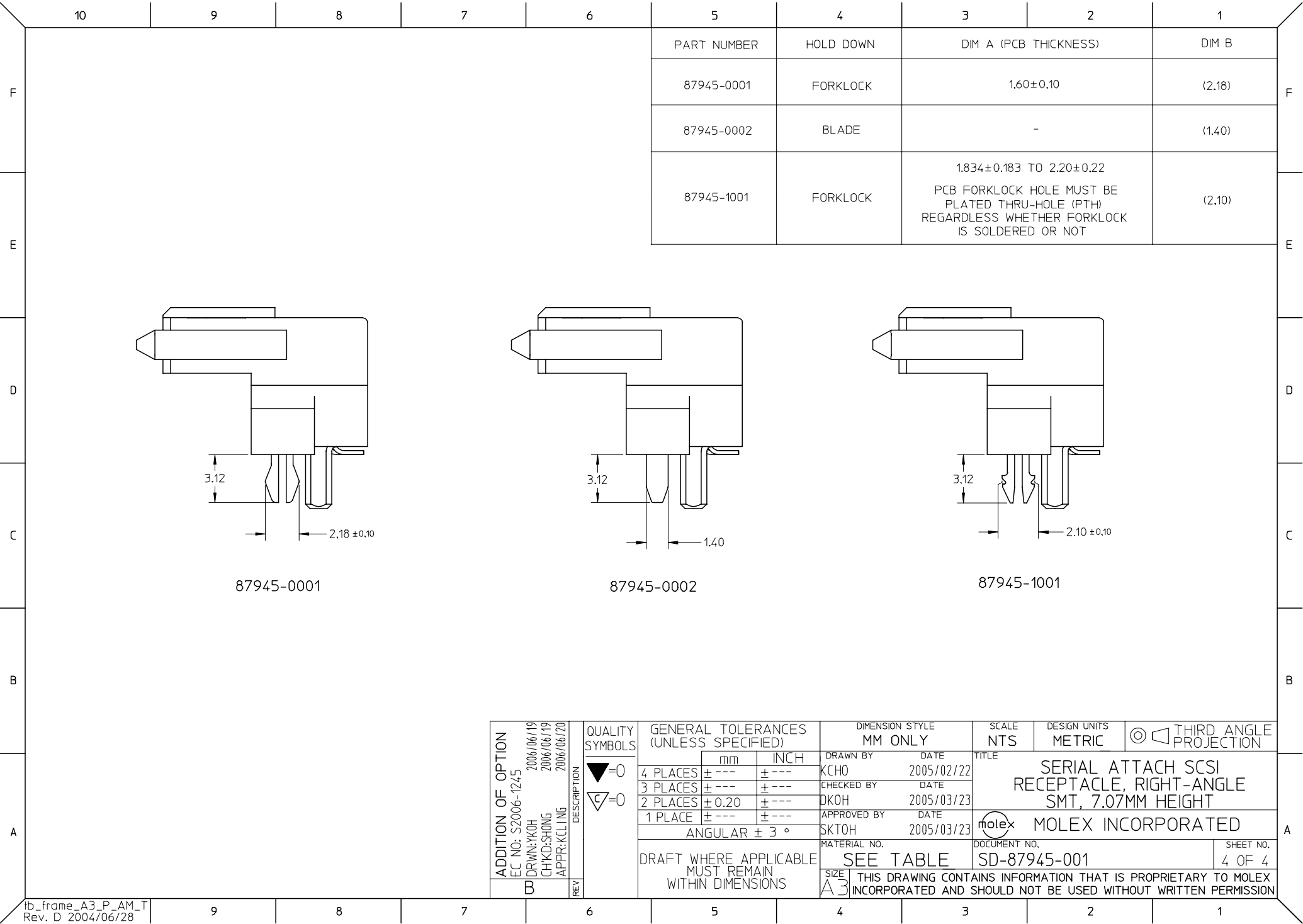
|                            |            |
|----------------------------|------------|
| DIMENSION STYLE<br>MM ONLY |            |
| DRAWN BY                   | DATE       |
| KCHO                       | 2005/02/22 |
| CHECKED BY                 | DATE       |
| DKOH                       | 2005/03/23 |
| APPROVED BY                | DATE       |
| SKTOH                      | 2005/03/23 |
| MATERIAL NO.               |            |
| SEE TABLE                  |            |
| SIZE                       |            |
| A3                         |            |

|                    |                        |                                                               |  |
|--------------------|------------------------|---------------------------------------------------------------|--|
| SCALE<br>NTS       | DESIGN UNITS<br>METRIC | THIRD ANGLE PROJECTION                                        |  |
| TITLE              |                        | SERIAL ATTACH SCSI RECEPTACLE, RIGHT-ANGLE SMT, 7.07MM HEIGHT |  |
| MOLEX INCORPORATED |                        | DOCUMENT NO. SD-87945-001                                     |  |
| SHEET NO. 2 OF 4   |                        |                                                               |  |



RECOMMENDED PCB LAYOUT

|                                                                                       |                                        |              |                                                            |                                       |                                                                                                                                  |                            |              |              |                                                                              |                           |           |  |  |
|---------------------------------------------------------------------------------------|----------------------------------------|--------------|------------------------------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------|--------------|------------------------------------------------------------------------------|---------------------------|-----------|--|--|
| ADDITION OF OPTION<br>EC NO: S2006-1245<br>DRWN:YKH<br>CHKD:SHONG<br>APPR:KCLING<br>B | 2006/06/19<br>2006/06/19<br>2006/06/20 | DESCRIPTION  | QUALITY SYMBOLS                                            | GENERAL TOLERANCES (UNLESS SPECIFIED) |                                                                                                                                  | DIMENSION STYLE<br>MM ONLY |              | SCALE<br>NTS | DESIGN UNITS<br>METRIC                                                       | THIRD ANGLE<br>PROJECTION |           |  |  |
|                                                                                       |                                        |              | ▽=0<br><br>▽C=0                                            |                                       | mm                                                                                                                               | INCH                       | DRAWN BY     | DATE         | TITLE<br>SERIAL ATTACH SCSI<br>RECEPTACLE, RIGHT-ANGLE<br>SMT, 7.07MM HEIGHT |                           |           |  |  |
|                                                                                       |                                        |              |                                                            | 4 PLACES                              | ± ---                                                                                                                            | ± ---                      | KCHO         | 2005/02/22   |                                                                              |                           |           |  |  |
|                                                                                       |                                        |              |                                                            | 3 PLACES                              | ± ---                                                                                                                            | ± ---                      | CHECKED BY   | DATE         |                                                                              |                           |           |  |  |
|                                                                                       |                                        |              |                                                            | 2 PLACES                              | ± 0.20                                                                                                                           | ± ---                      | DKOH         | 2005/03/23   |                                                                              |                           |           |  |  |
|                                                                                       |                                        |              |                                                            | 1 PLACE                               | ± ---                                                                                                                            | ± ---                      | APPROVED BY  | DATE         | MOLEX MOLEX INCORPORATED                                                     |                           |           |  |  |
|                                                                                       |                                        |              | ANGULAR ± 3 °                                              |                                       | SKTOH                                                                                                                            | 2005/03/23                 |              |              |                                                                              |                           |           |  |  |
|                                                                                       |                                        |              | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                       |                                                                                                                                  |                            | MATERIAL NO. |              | DOCUMENT NO.                                                                 |                           | SHEET NO. |  |  |
| SEE TABLE                                                                             |                                        | SD-87945-001 |                                                            |                                       |                                                                                                                                  |                            | 3 OF 4       |              |                                                                              |                           |           |  |  |
|                                                                                       |                                        |              |                                                            | SIZE<br>A3                            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                            |              |              |                                                                              |                           |           |  |  |





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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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