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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

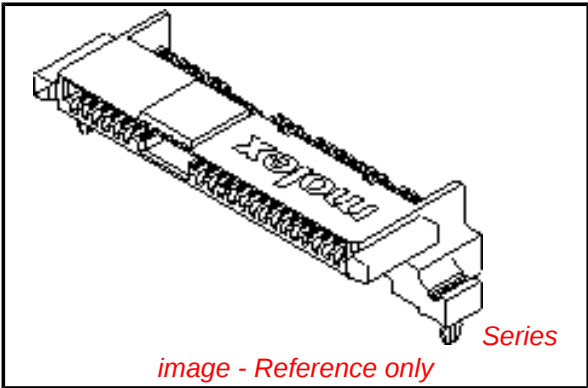


image - Reference only

**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](#)

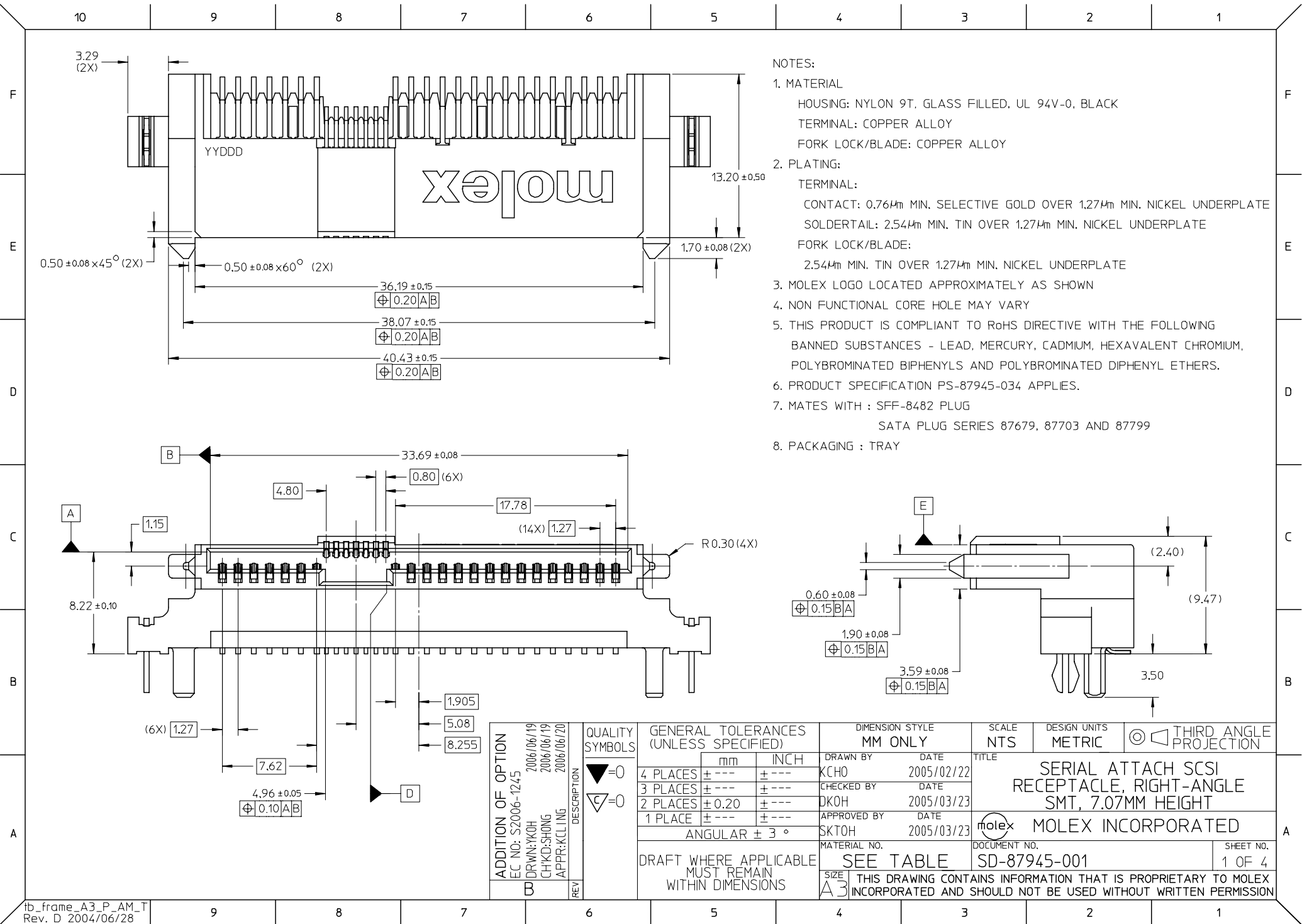
**Mates With**

[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                       |
| <b>Electrical</b>                              |                           |
| Current - Maximum per Contact                  | 1.5A                      |
| Shielded                                       | No                        |
| Voltage - Maximum                              | 30V                       |
| <b>Solder Process Data</b>                     |                           |
| 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                       |
| <b>Material Info</b>                           |                           |
| <b>Reference - Drawing Numbers</b>             |                           |
| Product Specification                          | PS-87945-034              |
| Sales Drawing                                  | SD-87945-001              |

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NOTES:

1. MATERIAL

HOUSING: NYLON 9T, GLASS FILLED, UL 94V-0, BLACK

TERMINAL: COPPER ALLOY

FORK LOCK/BLADE: COPPER ALLOY

2. PLATING:

TERMINAL:

CONTACT: 0.76µm MIN. SELECTIVE GOLD OVER 1.27µm MIN. NICKEL UNDERPLATE

SOLDERTAIL: 2.54µm MIN. TIN OVER 1.27µm MIN. NICKEL UNDERPLATE

FORK LOCK/BLADE:

2.54µm MIN. TIN OVER 1.27µm MIN. NICKEL UNDERPLATE

3. MOLEX LOGO LOCATED APPROXIMATELY AS SHOWN

4. NON FUNCTIONAL CORE HOLE MAY VARY

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

6. PRODUCT SPECIFICATION PS-87945-034 APPLIES.

7. MATES WITH : SFF-8482 PLUG

SATA PLUG SERIES 87679, 87703 AND 87799

8. PACKAGING : TRAY

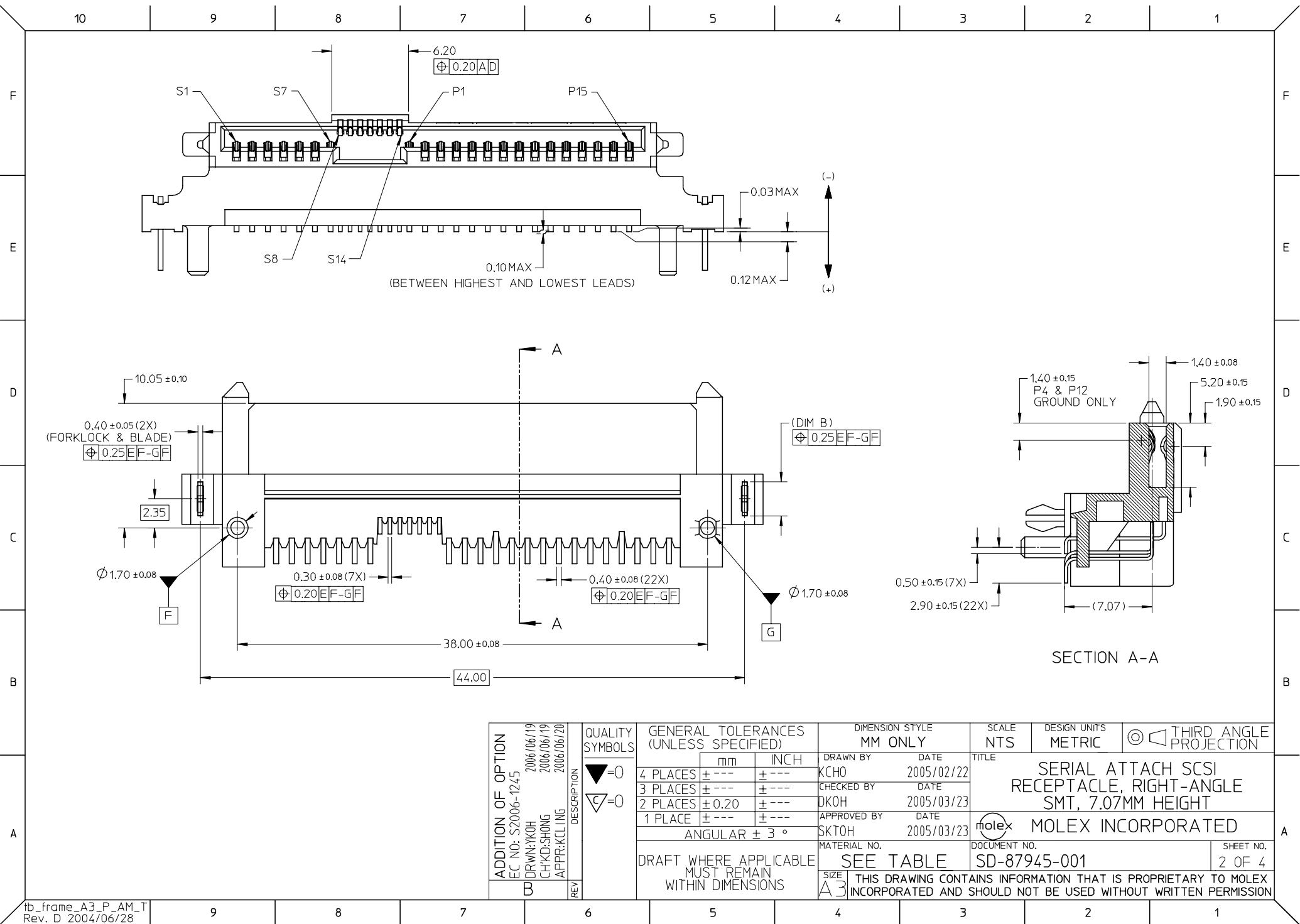
| ADDITION OF OPTION |             |
|--------------------|-------------|
| EC NO: S2006-1245  | 2006/06/19  |
| DRWN:YKH           | 2006/06/19  |
| CHKD:SHONG         | 2006/06/19  |
| APPR:KCLING        | 2006/06/20  |
| REV                | DESCRIPTION |
| B                  |             |

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

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

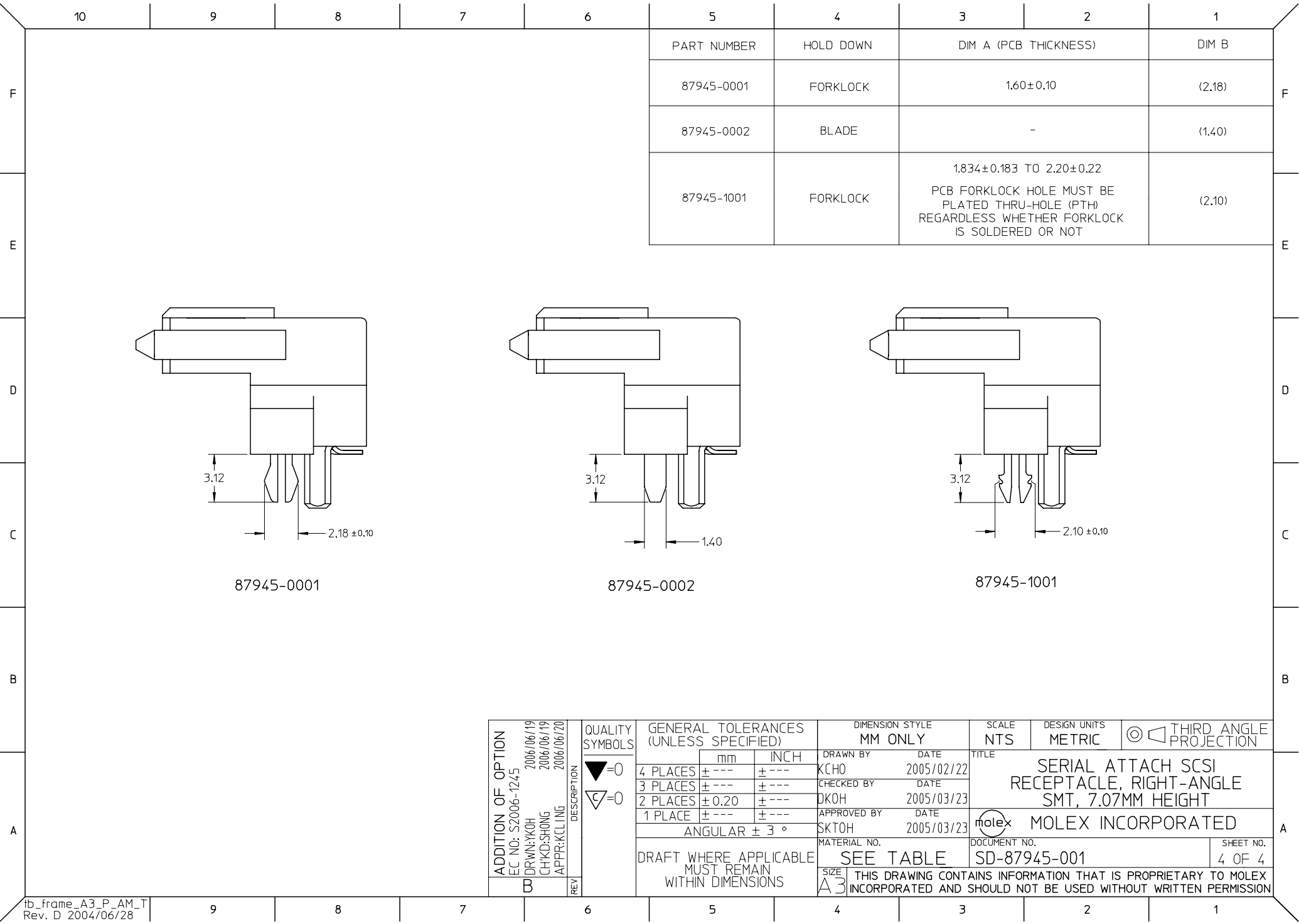
| DIMENSION STYLE MM ONLY                                                                                                       |            |
|-------------------------------------------------------------------------------------------------------------------------------|------------|
| DRAWN BY                                                                                                                      | 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                                                                                                                       |            |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |            |

|                                                                                               |                        |                           |                     |
|-----------------------------------------------------------------------------------------------|------------------------|---------------------------|---------------------|
| SCALE<br>NTS                                                                                  | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |                     |
| TITLE                                                                                         |                        |                           |                     |
| SERIAL ATTACH SCSI<br>RECEPTACLE, RIGHT-ANGLE<br>SMT, 7.07MM HEIGHT                           |                        |                           |                     |
| MOLEX INCORPORATED                                                                            |                        |                           |                     |
| DOCUMENT NO.<br>SD-87945-001                                                                  |                        |                           | SHEET NO.<br>1 OF 4 |
| ALL INFORMATION THAT IS PROPRIETARY TO MOLEX<br>SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                        |                           |                     |

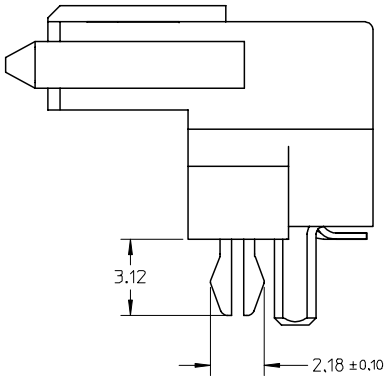




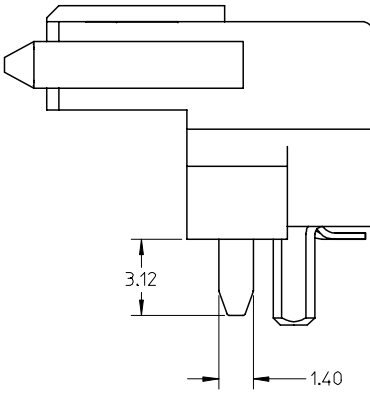
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Rev. D 2004/06/28



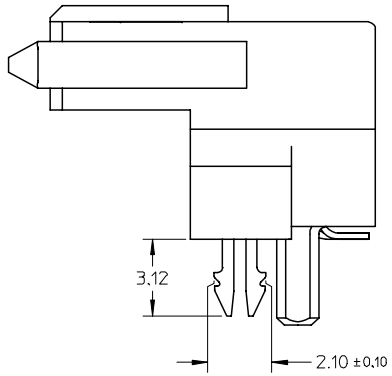
|             |           |                                                                                                                                      |        |
|-------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------|--------|
| PART NUMBER | HOLD DOWN | DIM A (PCB THICKNESS)                                                                                                                | DIM B  |
| 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<br>PCB FORKLOCK HOLE MUST BE<br>PLATED THRU-HOLE (PTH)<br>REGARDLESS WHETHER FORKLOCK<br>IS SOLDERED OR NOT | (2.10) |



87945-0001



87945-0002



87945-1001

|                                                                                       |                    |                                |                                                            |        |                            |                      |                    |                                                                                                                                  |                           |           |  |  |
|---------------------------------------------------------------------------------------|--------------------|--------------------------------|------------------------------------------------------------|--------|----------------------------|----------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------|--|--|
| ADDITION OF OPTION<br>EC NO: S2006-1245<br>DRWN:YKH<br>CHKD:SHONG<br>APPR:KCLING<br>B | DESCRIPTION<br>REV | QUALITY SYMBOLS<br>▽=0<br>▽C=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |        | DIMENSION STYLE<br>MM ONLY |                      | SCALE<br>NTS       | DESIGN UNITS<br>METRIC                                                                                                           | THIRD ANGLE<br>PROJECTION |           |  |  |
|                                                                                       |                    |                                |                                                            | mm     | INCH                       | DRAWN BY<br>KCHO     | DATE<br>2005/02/22 | SERIAL ATTACH SCSI<br>RECEPTACLE, RIGHT-ANGLE<br>SMT, 7.07MM HEIGHT                                                              |                           |           |  |  |
|                                                                                       |                    |                                | 4 PLACES                                                   | ± ---  | ± ---                      | CHECKED BY<br>DKOH   | DATE<br>2005/03/23 |                                                                                                                                  |                           |           |  |  |
|                                                                                       |                    |                                | 3 PLACES                                                   | ± ---  | ± ---                      | APPROVED BY<br>SKTOH | DATE<br>2005/03/23 |                                                                                                                                  |                           |           |  |  |
|                                                                                       |                    |                                | 2 PLACES                                                   | ± 0.20 | ± ---                      | MOLEX INCORPORATED   |                    |                                                                                                                                  |                           |           |  |  |
|                                                                                       |                    |                                | 1 PLACE                                                    | ± ---  | ± ---                      |                      |                    |                                                                                                                                  |                           |           |  |  |
|                                                                                       |                    |                                | ANGULAR ± 3 °                                              |        |                            | MATERIAL NO.         |                    | DOCUMENT NO.                                                                                                                     |                           | SHEET NO. |  |  |
|                                                                                       |                    |                                | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |        |                            | SEE TABLE            |                    | SD-87945-001                                                                                                                     |                           | 4 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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- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
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## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

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

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
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).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А