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**Part Number:** [0878630025](#)  
**Status:** **Active**  
**Description:** 1.27mm (.050") Signal Pitch, 0.80mm (.031") SCSI Pitch, 1.27mm (.050") Power Pitch  
SAS Receptacle, Vertical, Press fit, 3.50mm (.138") Tail Length, 29 Circuits, Lead free

**Documents:**  
[3D Model](#) [Product Specification PS-87863-060 \(PDF\)](#)  
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

**Agency Certification**

CSA LR19980  
UL E29179

**General**

Product Family I/O Connectors  
Series [87863](#)  
Application Board-to-Board  
Comments No pick and place cap  
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  
Material - Resin High Temperature Thermoplastic  
Number of Rows 2  
Orientation Vertical  
PC Tail Length (in) 0.118 In, 0.138 In  
PC Tail Length (mm) 3.00 mm, 3.50 mm  
PCB Locator Yes  
PCB Retention Yes  
PCB Thickness Recommended (in) 0.093 In, 0.125 In  
PCB Thickness Recommended (mm) 2.36 mm, 3.18 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

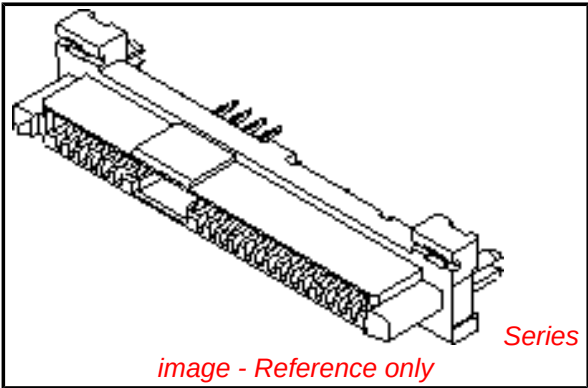


image - Reference only

**EU RoHS**  
**ELV and RoHS**  
**Compliant**  
**REACH SVHC**  
**Contains SVHC: No**  
**Halogen-Free**  
**Status**  
**Halogen-Free**



**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**  
[87863Series](#)

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

|                                |                              |
|--------------------------------|------------------------------|
| Polarized to PCB               | Yes                          |
| Surface Mount Compatible (SMC) | Yes                          |
| Temperature Range - Operating  | 0°C to +55°C                 |
| Termination Interface: Style   | Through Hole - Compliant Pin |
| Waterproof / Dustproof         | No                           |
| Wire Size AWG                  | N/A                          |

**Electrical**

|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | 1.5A |
| Shielded                      | No   |
| Voltage - Maximum             | 30V  |

**Material Info**

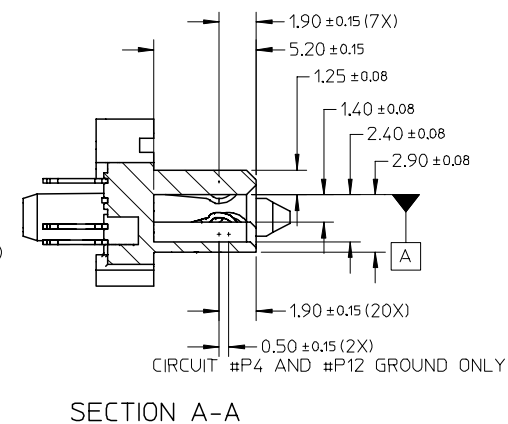
**Reference - Drawing Numbers**

|                       |              |
|-----------------------|--------------|
| Product Specification | PS-87863-060 |
| Sales Drawing         | SD-87863-059 |

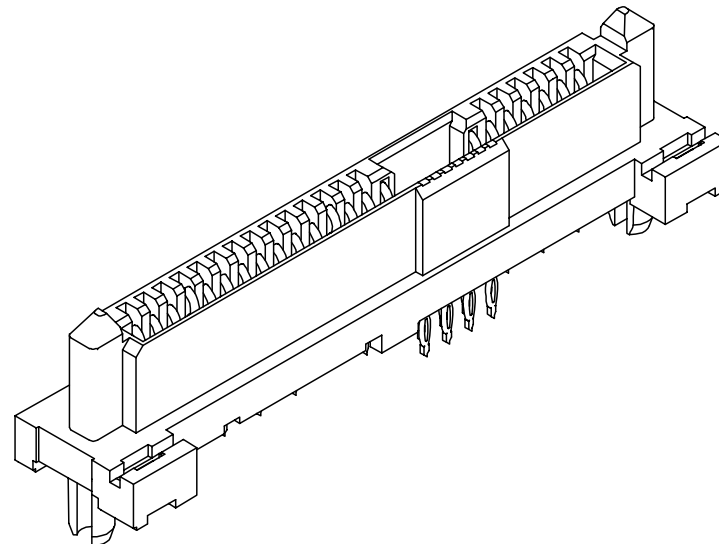
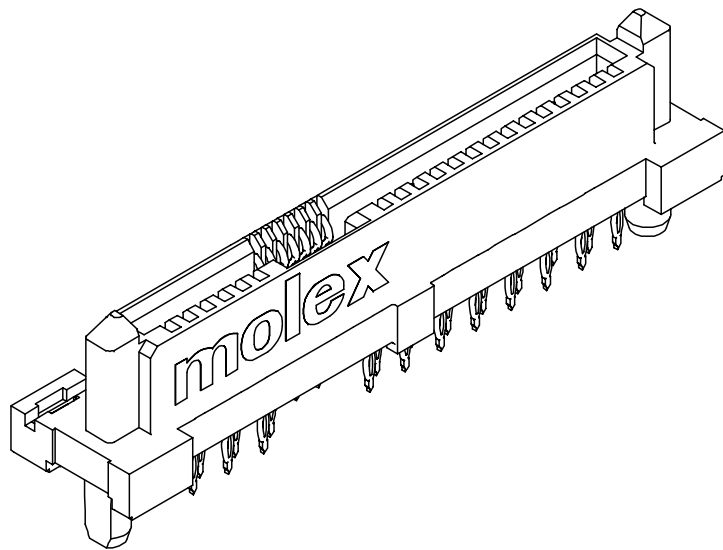
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|-----------------------------------------------------------------------------|----------------------------------------|--------------------|--------------------------------------|------------------------------------------|--------|----------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------|--|--|
| REVISED<br>EC NO: S2007-1057<br>DRWN:YKH<br>CHKD:CGTAN<br>APPR:KCLING<br>C5 | 2007/06/14<br>2007/06/14<br>2007/06/14 | DESCRIPTION<br>REV | QUALITY<br>SYMBOLS<br><br>▽=0<br>◇=0 | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |        | DIMENSION STYLE<br>MM ONLY |                  | SCALE<br>NTS                                                                                                                     | DESIGN UNITS<br>METRIC                                                 | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                             |                                        |                    |                                      |                                          | mm     | INCH                       | DRAWN BY<br>DKOH | DATE<br>2004/10/16                                                                                                               | TITLE<br>SERIAL ATTACH SCSI<br>PRESS-FIT RECEPTACLE<br>STANDARD HEIGHT |                           |  |  |
|                                                                             |                                        |                    |                                      | 4 PLACES                                 | ± ---  | ± ---                      | CHECKED BY       | DATE                                                                                                                             |                                                                        |                           |  |  |
|                                                                             |                                        |                    |                                      | 3 PLACES                                 | ± ---  | ± ---                      | KCL ING          | 2004/11/15                                                                                                                       |                                                                        |                           |  |  |
|                                                                             |                                        |                    |                                      | 2 PLACES                                 | ± 0.20 | ± ---                      | APPROVED BY      | DATE                                                                                                                             | MOLEX MOLEX INCORPORATED                                               |                           |  |  |
|                                                                             |                                        |                    |                                      | 1 PLACE                                  | ± ---  | ± ---                      | SKTOH            | 2004/11/17                                                                                                                       |                                                                        |                           |  |  |
|                                                                             |                                        |                    |                                      | ANGULAR ± 3 °                            |        | MATERIAL NO.               |                  | DOCUMENT NO.                                                                                                                     |                                                                        | SHEET NO.                 |  |  |
| DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                  |                                        | SEE TABLE          |                                      | SD-87863-059                             |        | 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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