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Part Number:

5018764040

Status:

Active

Overview:

[igrid](#)

Description:

2.00mm (.079") Pitch iGrid™ Wire-to-Board Header, Dual Row, Right Angle, 40 Circuits

Documents:

[3D Model](#)

[Drawing \(PDF\)](#)

[Product Specification PS-501646-001 \(PDF\)](#)

[RoHS Certificate of Compliance \(PDF\)](#)

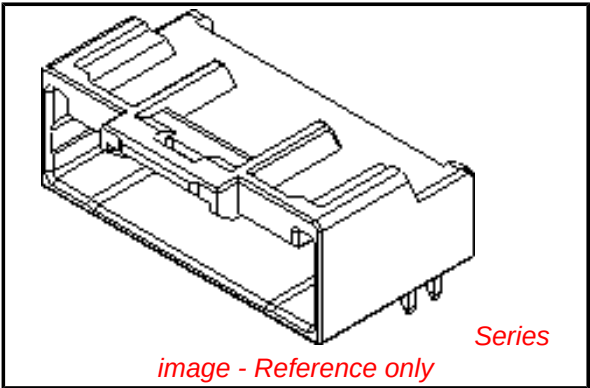
|                                |                       |
|--------------------------------|-----------------------|
| <b>General</b>                 |                       |
| Product Family                 | PCB Headers           |
| Series                         | 501876                |
| Application                    | Wire-to-Board         |
| Overview                       | <a href="#">igrid</a> |
| Product Name                   | iGrid™                |
| <b>Physical</b>                |                       |
| Breakaway                      | No                    |
| Circuits (Loaded)              | 40                    |
| Color - Resin                  | Natural               |
| Durability (mating cycles max) | 30                    |
| Glow-Wire Compliant            | No                    |
| Keying to Mating Part          | Yes                   |
| Lock to Mating Part            | Yes                   |
| Material - Metal               | Brass                 |
| Material - Plating Mating      | Tin                   |
| Material - Plating Termination | Tin                   |
| Material - Resin               | Nylon                 |
| Number of Rows                 | 2                     |
| Orientation                    | Right Angle           |
| PC Tail Length (in)            | 0.126 In              |
| PC Tail Length (mm)            | 3.20 mm               |
| PCB Locator                    | No                    |
| PCB Retention                  | None                  |
| PCB Thickness Recommended (in) | 0.047 In, 0.063 In    |
| PCB Thickness Recommended (mm) | 1.20 mm, 1.60 mm      |
| Packaging Type                 | Tray                  |
| Pitch - Mating Interface (in)  | 0.079 In              |
| Pitch - Mating Interface (mm)  | 2.00 mm               |
| Polarized to Mating Part       | Yes                   |
| Polarized to PCB               | No                    |
| Stackable                      | No                    |
| Surface Mount Compatible (SMC) | No                    |
| Temperature Range - Operating  | -25°C to +85°C        |
| Termination Interface: Style   | Through Hole          |

|                               |                  |
|-------------------------------|------------------|
| <b>Electrical</b>             |                  |
| Current - Maximum per Contact | 2A               |
| Voltage - Maximum             | 250V AC (RMS)/DC |

Material Info

Reference - Drawing Numbers

|                         |                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Packaging Specification | SPK-501876-001                                                                                                                |
| Product Specification   | PS-501646-001, RPS-501646-001, RPS-501646-002, RPS-501646-003, RPS-501646-004, RPS-501646-005, RPS-501646-006, RPS-501646-007 |



**EU RoHS**  
**ELV and RoHS**  
**Compliant**  
**REACH SVHC**  
Not Reviewed  
**Halogen-Free**  
**Status**  
**Not Reviewed**

**China RoHS**  

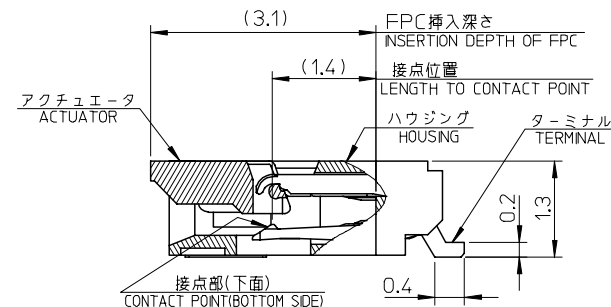
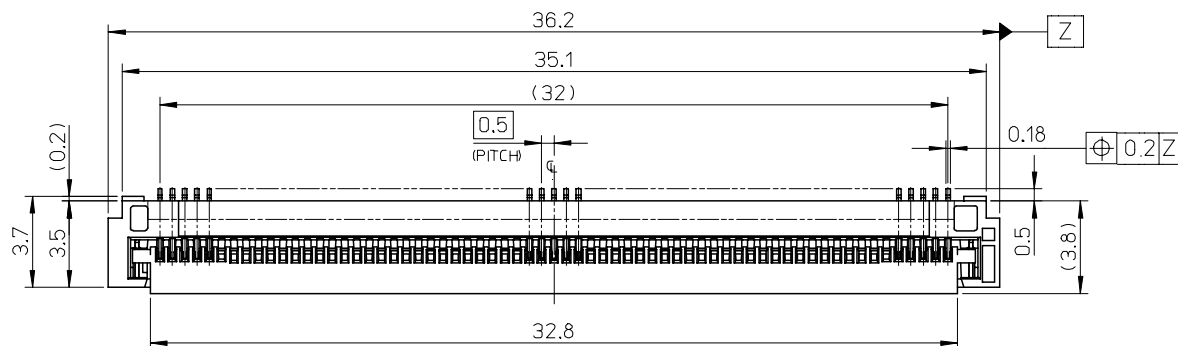

**Need more information on product environmental compliance?**  
  
Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
For a multiple part number RoHS Certificate of Compliance, [click here](#)  
  
Please visit the [Contact Us](#) section for any non-product compliance questions.

Search Parts in this Series  
501876Series

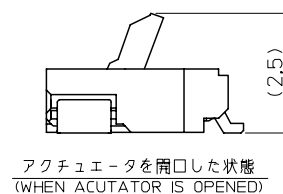
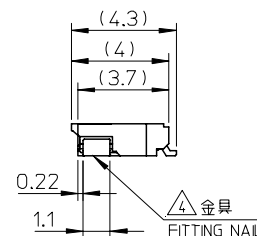
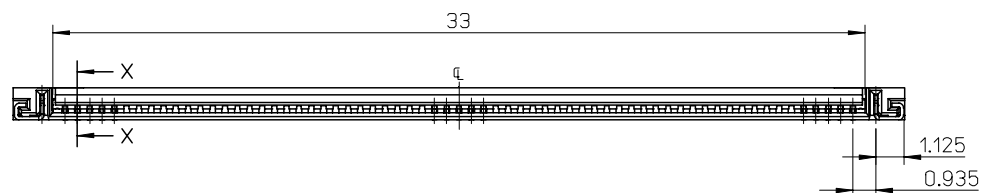
Mates With  
501646 Housing. 501647 Crimp Terminal 22-26 AWG. 501648 Crimp Terminal 26-28 AWG

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SECTION X-X



|                                                                                                                    |                                                            |                                          |           |                            |                                                                                                                                  |                                                                    |                        |                           |  |  |
|--------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------|-----------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------|---------------------------|--|--|
| REVISED<br>EC NO: J2007-1362<br>DRWN:Y.TAKAYASU 2006/11/09<br>CHKD:H.HIRATA 2006/11/09<br>APPR:H.HIRATA 2006/11/10 | DESCRIPTION                                                | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |           | DIMENSION STYLE<br>MM ONLY |                                                                                                                                  | SCALE<br>5:1                                                       | DESIGN UNITS<br>METRIC | THIRD ANGLE<br>PROJECTION |  |  |
|                                                                                                                    |                                                            | 10 UNDER                                 | ±0.2      | DRAWN BY<br>Y.TAKAYASU     | DATE<br>2005/08/01                                                                                                               | TITLE<br>0.5 FPC CONN ZIF E/O<br>HSG ASSY (HGT=1.3)<br>-LEAD FREE- |                        |                           |  |  |
|                                                                                                                    |                                                            | 10 OVER 30 UNDER                         | ±0.25     | CHECKED BY<br>H.HIRATA     | DATE<br>2005/08/01                                                                                                               |                                                                    |                        |                           |  |  |
|                                                                                                                    |                                                            | 30 OVER                                  | ±0.3      | APPROVED BY<br>H.HIRATA    | DATE<br>2005/08/01                                                                                                               | MOLEX INCORPORATED                                                 |                        |                           |  |  |
|                                                                                                                    |                                                            | ANGULAR ±3 °                             |           | MATERIAL NO.               |                                                                                                                                  | DOCUMENT NO.                                                       |                        | SHEET NO.                 |  |  |
|                                                                                                                    | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |                                          | SEE CHART |                            | SD-501896-001                                                                                                                    |                                                                    | 1 OF 2                 |                           |  |  |
|                                                                                                                    | REV                                                        |                                          |           | SIZE<br>A3                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                    |                        |                           |  |  |

