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**Part Number:** [43650-1205](#)  
**Status:** **Active**  
**Overview:** Micro-Fit 3.0™ Connectors  
**Description:** 3.00mm Pitch Micro-Fit 3.0™ Header, Surface Mount Compatible, Single Row, Right Angle, with Press-fit Metal Retention Clip, 12 Circuits, 0.76µm Gold (Au) Selective Plating, Glow Wire Compatible

**Documents:**

|  |  |
|--|--|
| <a href="#">3D Model</a>                             | <a href="#">Test Summary TS-43045-002 (PDF)</a>      |
| <a href="#">Drawing (PDF)</a>                        | <a href="#">RoHS Certificate of Compliance (PDF)</a> |
| <a href="#">Product Specification PS-43650 (PDF)</a> | <a href="#">Product Literature (PDF)</a>             |



image - Reference only

**Agency Certification**

|     |           |
|-----|-----------|
| CSA | LR19980   |
| TUV | R72081037 |
| UL  | E29179    |

**General**

|                |   |
|----------------|---|
| Product Family | PCB Headers   |
| Series         | <a href="#">43650</a>   |
| Application    | Power, Wire-to-Board  |
| Comments       | "High Temperature Square Pin Solder Type<P><P>This Molex product is manufactured from material that has the following ratings, tested by independent agencies:<br>a) A Glow Wire Ignition Temperature (GWIT) of at least 775 deg C per IEC 60695-2-13.. b) A Glow Wire Flammability Index (GWFI) above 850 deg C per IEC 60695-2-12.and hence complies with the requirements set out in the International Standard IEC 60335-1 5th edition - household and similar electrical appliances - safety, section 30 Resistance to heat and fire. <P><P> The customers using this product must determine its suitability for use in their particular application through testing or other acceptable means as described in end-product glow-wire flammability test standard IEC 60695-2-11 and any applicable product end-use standard(s). <P> If it is determined during the customer's evaluation of suitability, that higher performance is required, please contact Molex for possible product options." |

|                             |   |
|-----------------------------|---|
| Overview                    | <a href="#">Micro-Fit 3.0™ Connectors</a> |
| Product Literature Order No | 987650-5984                               |
| Product Name                | Micro-Fit 3.0™                            |
| UPC                         | 756054604571                              |

**Physical**

|                                |        |
|--------------------------------|--------|
| Breakaway                      | No     |
| Circuits (Loaded)              | 12     |
| Circuits (maximum)             | 12     |
| Color - Resin                  | Black  |
| Durability (mating cycles max) | 30     |
| Flammability                   | 94V-0  |
| Glow-Wire Compliant            | Yes    |
| Mated Height                   | 6.98mm |
| Material - Metal               | Brass  |
| Material - Plating Mating      | Gold   |

**EU RoHS** **China RoHS**

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



**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**

[43650Series](#)

**Mates With**

[43645 Micro-Fit 3.0™ Receptacle Housing](#)

|                                |                                |
|--------------------------------|--------------------------------|
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Net Weight                     | 2.193/g                        |
| Number of Rows                 | 1                              |
| Orientation                    | Right Angle                    |
| PCB Locator                    | Yes                            |
| PCB Retention                  | Yes                            |
| PCB Thickness - Recommended    | 1.60mm                         |
| Packaging Type                 | Tray                           |
| Pitch - Mating Interface       | 3.00mm                         |
| Plating min - Mating           | 0.762µm                        |
| Plating min - Termination      | 2.540µm                        |
| Polarized to PCB               | Yes                            |
| Shrouded                       | Fully                          |
| Stackable                      | No                             |
| Surface Mount Compatible (SMC) | Yes                            |
| Temperature Range - Operating  | -40°C to +105°C                |
| Termination Interface: Style   | Through Hole                   |

### Electrical

|                               |      |
|-------------------------------|------|
| Current - Maximum per Contact | 5A   |
| Voltage - Maximum             | 250V |

### Solder Process Data

|  |                              |
|--|------------------------------|
| Duration at Max. Process Temperature (seconds) | 30                           |
| Lead-free Process Capability                   | SMC & Wave Capable (TH only) |
| Max. Cycles at Max. Process Temperature        | 3                            |
| Process Temperature max. C                     | 260                          |

### Material Info

#### Reference - Drawing Numbers

|                       |              |
|-----------------------|--------------|
| Product Specification | PS-43650     |
| Sales Drawing         | SD-43650-002 |
| Test Summary          | TS-43045-002 |

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