

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

**Part Number:** [0430451212](#)  
**Status:** **Active**  
**Overview:** [Micro-Fit Connector System](#)  
**Description:** Micro-Fit 3.0 Vertical Header, 3.00mm Pitch, Dual Row, 12 Circuits, with PCB Polarizing Peg, Tin, Glow-Wire Capable, Black

**Documents:**

- |                                                                 |                                                                |
|-----------------------------------------------------------------|----------------------------------------------------------------|
| <a href="#">3D Model (PDF)</a>                                  | <a href="#">Test Summary 430450004-TS-000 (PDF)</a>            |
| <a href="#">Drawing (PDF)</a>                                   | <a href="#">Test Summary TS-43045-001-001 (PDF)</a>            |
| <a href="#">3D Model</a>                                        | <a href="#">Test Summary TS-46235-001-001 (PDF)</a>            |
| <a href="#">Product Specification 430450001-PS-KO-000 (PDF)</a> | <a href="#">Datasheet (PDF)</a>                                |
| <a href="#">Product Specification 430450001-PS-SP-000 (PDF)</a> | <a href="#">Symbol Footprint Data SYM-43045-1212-001 (PDF)</a> |
| <a href="#">Product Specification PS-43045-001 (PDF)</a>        | <a href="#">Symbol Footprint Data SYM-43045-121X-001 (PDF)</a> |
| <a href="#">Packaging Specification PK-70873-0314-001 (PDF)</a> | <a href="#">RoHS Certificate of Compliance (PDF)</a>           |

**Agency Certification**

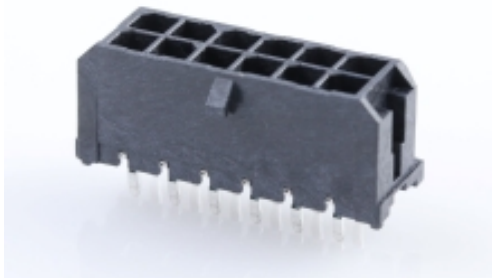
|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

**General**

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Family | PCB Headers                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Series         | <a href="#">43045</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Application    | Power, Wire-to-Board                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Comments       | High Temperature Square Pin Offset Through Hole Mounting Solder Type<P><P>This Molex product is manufactured from material that has the following ratings, tested by independent agencies:. 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. High Temperature Square Pin Offset Through Hole Mounting Solder Type<P><P>This Molex product is manufactured from material that has the following ratings, tested by independent agencies:. 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 Connector System</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Product Name   | Micro-Fit 3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| UPC            | 800754373050                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

**Physical**

|                                |         |
|--------------------------------|---------|
| Breakaway                      | No      |
| Circuits (Loaded)              | 12      |
| Circuits (maximum)             | 12      |
| Color - Resin                  | Black   |
| Durability (mating cycles max) | 30      |
| Flammability                   | 94V-0   |
| Glow-Wire Capable              | Yes     |
| Mated Height                   | 17.64mm |
| Material - Metal               | Brass   |



Series image - Reference only

**EU ELV**

**Not Relevant**

**EU RoHS**

**Compliant**

**REACH SVHC**

Not Contained Per -  
D(2020)9139-DC (19  
Jan 2021)

**Halogen-Free**

**Status**

**Low-Halogen**

For more information, please visit [Contact US](#)

**China RoHS**

|                 |               |
|-----------------|---------------|
| China ROHS      | Green Image   |
| ELV             | Not Relevant  |
| RoHS Phthalates | Not Contained |

**Search Parts in this Series**

[43045 Series](#)

**Mates With**

Micro-Fit 3.0 Receptacle Housing [43025](#)  
<br>Micro-Fit 3.0 TPA Receptacle Housing  
[172952](#)

|                                                |                                                           |
|------------------------------------------------|-----------------------------------------------------------|
| Material - Plating Mating                      | Tin                                                       |
| Material - Plating Termination                 | Tin                                                       |
| Material - Resin                               | High Temperature Thermoplastic                            |
| Net Weight                                     | 1.698/g                                                   |
| Number of Rows                                 | 2                                                         |
| Orientation                                    | Vertical                                                  |
| PCB Locator                                    | Yes                                                       |
| PCB Retention                                  | Yes                                                       |
| PCB Thickness - Recommended                    | 1.60mm                                                    |
| Packaging Type                                 | Tray                                                      |
| Pitch - Mating Interface                       | 3.00mm                                                    |
| Plating min - Mating                           | 0.254µm                                                   |
| Polarized to PCB                               | Yes                                                       |
| Shrouded                                       | Fully                                                     |
| Stackable                                      | No                                                        |
| Surface Mount Compatible (SMC)                 | Yes                                                       |
| Temperature Range - Operating                  | -40° to +105°C                                            |
| Termination Interface: Style                   | Through Hole - Kinked Pin                                 |
| <b>Electrical</b>                              |                                                           |
| Current - Maximum per Contact                  | 8.5A                                                      |
| Voltage - Maximum                              | 600V                                                      |
| <b>Solder Process Data</b>                     |                                                           |
| Duration at Max. Process Temperature (seconds) | 030                                                       |
| Lead-freeProcess Capability                    | SMC&WAVE                                                  |
| Max. Cycles at Max. Process Temperature        | 003                                                       |
| Process Temperature max. C                     | 260                                                       |
| <b>Material Info</b>                           |                                                           |
| <b>Reference - Drawing Numbers</b>             |                                                           |
| Packaging Specification                        | PK-70873-0314-001                                         |
| Product Specification                          | 430450001-PS-KO-000, 430450001-PS-SP-000,<br>PS-43045-001 |
| Sales Drawing                                  | SD-43045-005-001                                          |
| Symbol/Footprint Data                          | SYM-43045-1212-001, SYM-43045-121X-001                    |
| Test Summary                                   | 430450004-TS-000, TS-43045-001-001,<br>TS-46235-001-001   |

This document was generated on 08/18/2021

PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION