



molex 0430451610 Connector Header Surface Mount User Guide

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molex 0430451610 Connector Header Surface Mount



- **Part Number:** 0430451610
- **Status:** Active
- **Overview:** Micro-Fit Connector System
- **Description:** Micro-Fit 3.0 Right-Angle Header, 3.00mm Pitch, Dual Row, 16 Circuits, with Solder Tab, Gold, Glow-Wire Capable, Black, Tape and Reel

Documents

- **Drawing (PDF)** Test Summary 430450006-TS-000 (PDF)
- **3D Model** Test Summary TS-43045-001-001 (PDF)
- **3D Model (PDF)** Test Summary TS-43045-002-001 (PDF)
- **Product Specification 430450001-PS-KO-000 (PDF)** Test Summary TS-46235-001-001 (PDF)
- **Product Specification 430450001-PS-SP-000 (PDF)** Datasheet (PDF)
- **Product Specification PS-43045-001 (PDF)** Symbol Footprint Data SYM-43045-1609-001 (PDF)
- **Application Specification AS-43045-001-001 (PDF)** RoHS Certificate of Compliance (PDF)
- **Packaging Specification 430450001-PK-000 (PDF)**

Agency Certification

- **CSA** LR19980
- **UL** E29179

General

- **Product Family** PCB Headers
- **Series** 43045
- **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:. 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 enduse 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** Micro-Fit Connector System
- **Product Name** Micro-Fit 3.0
- **UPC** 800753836235

Physical

- **Breakaway** No
- **Circuits (Loaded)** 16

- **Circuits (maximum)** 16
- **Color – Resin** Black
- **Durability (mating cycles max)** 30
- **Flammability** 94V-0
- **Glow-Wire Capable** Yes
- **Mated Height** 10.29mm

EU ELV

- Not Relevant

EU RoHS China RoHS

- Compliant

REACH SVHC

- Not Contained Per –
- D(2021)4569-DC (8
- July 2021)

Halogen-Free Status

- Low-Halogen

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

- **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
Micro-Fit 3.0 TPA Receptacle Housing 172952

- **Material** – Metal Brass
- **Material** – Plating Mating Gold
- **Material** – Plating Termination Tin
- **Material** – Resin High-Temperature Thermoplastic
- **Net Weight** 2.402/g
- **Number of Rows** 2
- **Orientation** Right Angle
- **PCB Locator** Yes

- **PCB Retention** Yes
- **PCB Thickness – Recommended** 1.60mm
- **Packaging Type Embossed** Tape on Reel
- **Pitch – Mating Interface** 3.00mm
- **Plating min – Mating** 0.381µm
- **Polarized to PCB** Yes
- **Shrouded** Fully
- **Stackable** No
- **Surface Mount Compatible (SMC)** N/A
- **Temperature Range – Operating** -40° to +125°C
- **Termination Interface: Style** Surface Mount

Electrical

- **Current – Maximum per Contact** 8.5A
- **Voltage – Maximum** 600V

Solder Process Data

- **Duration at Max. Process Temperature (seconds)** 030
- **Lead-free process Capability** REFLOW
- **Max. Cycles at Max. Process Temperature** 003
- **Process Temperature max.** C 260

Material Info

Reference – Drawing Numbers

- **Application Specification** AS-43045-001-001
- **Packaging Specification** 430450001-PK-000
- **Product Specification** 430450001-PS-KO-000, 430450001-PS-SP-000, PS-43045-001
- **Sales Drawing** SD-43045-004-000
- **Symbol/Footprint Data** SYM-43045-1609-001
- **Test Summary** 430450006-TS-000, TS-43045-001-001,
- TS-43045-002-001, TS-46235-001-001

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Documents / Resources



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References

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