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Part Number:

0430450423

Status:

Active

Overview:

microfit\_30

Description:

3.00mm (.118") Pitch Micro-Fit 3.0™ Header, Surface Mount Compatible, Dual Row, Right Angle, with Press-fit Metal Retention Clip, 4 Circuits, 0.76µm (30µ") Gold (Au) Selective Plating, Glow Wire Compatible

Documents:

3D Model

Drawing (PDF)

Product Specification PS-43045 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

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

General

|                             |                                         |
|-----------------------------|-----------------------------------------|
| Product Family              | PCB Headers                             |
| Series                      | 43045                                   |
| Application                 | Wire-to-Board                           |
| Comments                    | High Temperature Square Pin Solder Type |
| Overview                    | microfit_30                             |
| Product Literature Order No | USA-106                                 |
| Product Name                | Micro-Fit 3.0™                          |

Physical

|                                |                                |
|--------------------------------|--------------------------------|
| Breakaway                      | No                             |
| Circuits (Loaded)              | 4                              |
| Circuits (maximum)             | 4                              |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 30                             |
| Flammability                   | 94V-0                          |
| Glow-Wire Compliant            | Yes                            |
| Mated Height (in)              | 0.396 In                       |
| Mated Height (mm)              | 10.06 mm                       |
| Material - Metal               | Brass                          |
| Material - Plating Mating      | Gold                           |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Number of Rows                 | 2                              |
| Orientation                    | Right Angle                    |
| PCB Locator                    | Yes                            |
| PCB Retention                  | Yes                            |
| PCB Thickness Recommended (in) | 0.062 In                       |
| PCB Thickness Recommended (mm) | 1.60 mm                        |
| Packaging Type                 | Tray                           |
| Pitch - Mating Interface (in)  | 0.118 In                       |
| Pitch - Mating Interface (mm)  | 3.00 mm                        |
| Plating min: Mating (µin)      | 30                             |
| Plating min: Mating (µm)       | 0.76                           |
| Plating min: Termination (µin) | 100                            |
| Plating min: Termination (µm)  | 2.50                           |
| Polarized to PCB               | Yes                            |
| Shrouded                       | Fully                          |
| Stackable                      | No                             |
| Surface Mount Compatible (SMC) | Yes                            |

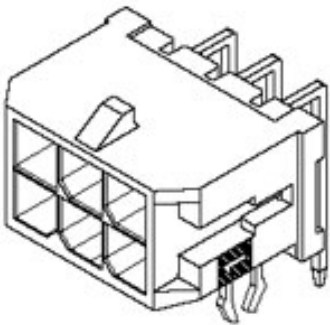


image - Reference only

Series

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Halogen-Free

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

43045Series

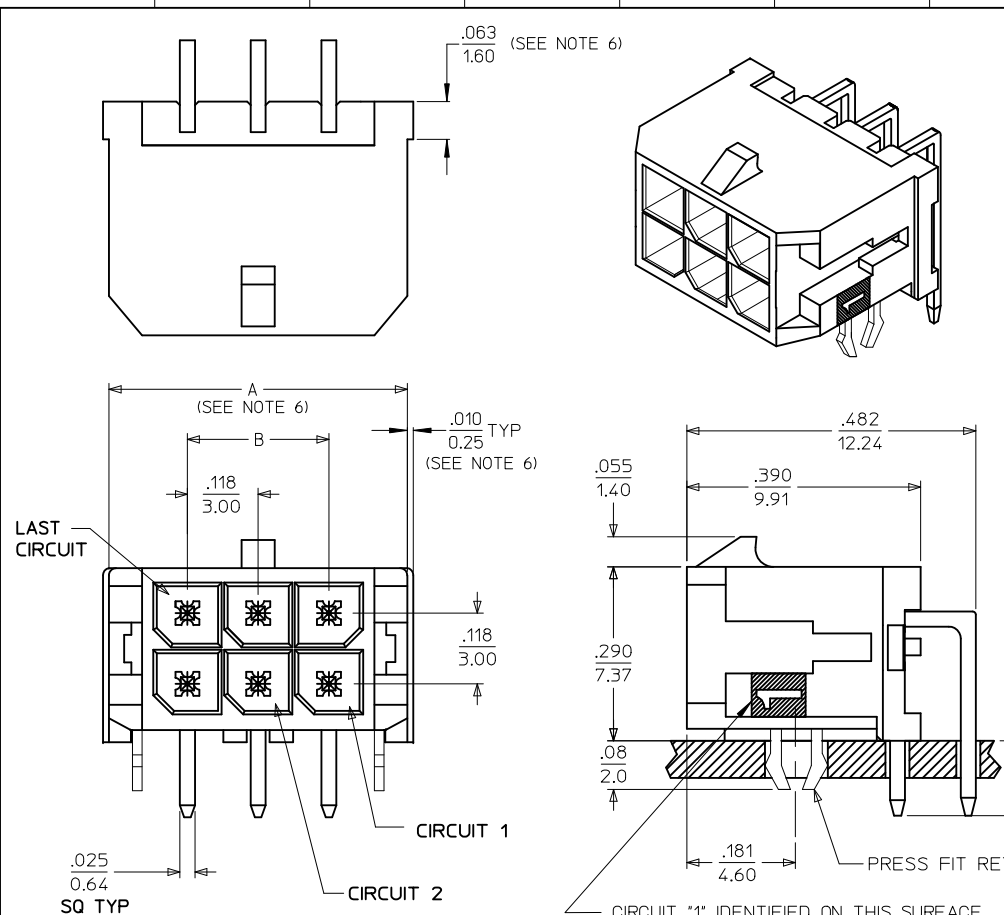
Mates With

43025

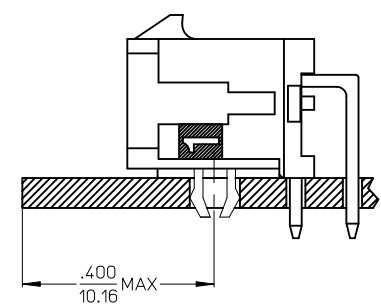
|                                                |                                                          |
|------------------------------------------------|----------------------------------------------------------|
| Temperature Range - Operating                  | -40°C to +105°C                                          |
| Termination Interface: Style                   | Through Hole                                             |
| <b>Electrical</b>                              |                                                          |
| Current - Maximum per Contact                  | 5A                                                       |
| Voltage - Maximum                              | 250V                                                     |
| <b>Solder Process Data</b>                     |                                                          |
| 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                                                      |
| <b>Material Info</b>                           |                                                          |
| <b>Reference - Drawing Numbers</b>             |                                                          |
| Packaging Specification                        | PK-70873-0313                                            |
| Product Specification                          | PS-43045, RPS-43045-001, RPS-43045-003,<br>RPS-43045-004 |
| Sales Drawing                                  | SD-43045-008                                             |
| Test Summary                                   | TS-43045-001, TS-43045-002                               |

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- NOTES:
- HOUSING MATERIAL: GLASS FILLED LIQUID CRYSTAL POLYMER UL94V-0, COLOR: BLACK  
TERMINAL MATERIAL: BRASS ALLOY
  - FINISH: A = .000100/(0.00254) MIN. TIN OVER  
.000050/(0.00127) MIN. NICKEL PLATE.  
B = .000015/(0.00038) MIN. SELECT GOLD IN CONTACT AREA,  
.000100/(0.00254) MIN. SELECT MATTE TIN ON SOLDER TAILS,  
BOTH OVER .000050/(0.00127) MIN. NICKEL PLATE.  
C = .000030/(0.00076) MIN. SELECT GOLD IN CONTACT AREA,  
.000100/(0.00254) MIN. SELECT MATTE TIN ON SOLDER TAILS,  
BOTH OVER .000050/(0.00127) MIN. NICKEL PLATE.
  - \* THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC." CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH TIN/LEAD IN THE PC TAIL AREA.
  - PRODUCT SPECIFICATION: PS-43045
  - TRAY PACKAGED: SEE MOLEX DRAWING PK-70873-0313
  - MATES WITH MICRO FIT (3.0) RECEPTACLE SERIES 43025
  - .010/0.25 OFFSETS ARE PRESENT ON ALL PARTS MANUFACTURED AFTER 11/1/2007, AND ON PARTS PRIOR TO 11/1/2007 THAT CONTAIN A GREEN DOT ON THE PRIMARY SHIPPING CARTON LABEL.
  - TO AVOID INTERFERENCE BETWEEN RECEPTACLE AND PCB, HEADER MUST BE PLACED WITHIN .400/(10.16) MAX. FROM EDGE OF PCB, AS SHOWN IN LOCATION DETAIL.
  - THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.



PCB LAYOUT: COMPONENT SIDE  
RECOMMEND PCB THICKNESS: .062/1.57

| CKTS | FINISH     |            |            |
|------|------------|------------|------------|
|      | A          | B          | C          |
| 02   | 43045-0221 | 43045-0222 | 43045-0223 |
| 04   | 43045-0421 | 43045-0422 | 43045-0423 |
| 06   | 43045-0621 | 43045-0622 | 43045-0623 |
| 08   | 43045-0821 | 43045-0822 | 43045-0823 |
| 10   | 43045-1021 | 43045-1022 | 43045-1023 |
| 12   | 43045-1221 | 43045-1222 | 43045-1223 |
| 14   | 43045-1421 | 43045-1422 | 43045-1423 |
| 16   | 43045-1621 | 43045-1622 | 43045-1623 |
| 18   | 43045-1821 | 43045-1822 | 43045-1823 |
| 20   | 43045-2021 | 43045-2022 | 43045-2023 |
| 22   | 43045-2221 | 43045-2222 | 43045-2223 |
| 24   | 43045-2421 | 43045-2422 | 43045-2423 |

|                                                                                                                                     |                                      |                                                                                                                                                                       |                                                                                                                                                  |                                                                  |                                                                                                    |                              |                     |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------------|---------------------|
| CORRECTED .482/12.24<br>EC NO: UCP2010-1324<br>2009/11/25<br>DRWN:TBRENS<br>CHKD:SSOUSEK<br>APPR:FSMLTH<br>2009/11/25<br>2009/11/30 | QUALITY SYMBOLS<br>▽=0<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>mm INCH<br>4 PLACES ± --- ± ---<br>3 PLACES ± --- ± .010<br>2 PLACES ± 0.25 ± .014<br>1 PLACE ± 0.36 ± ---<br>ANGULAR ± 1/2° | DIMENSION STYLE<br>IN/MM<br>DRAWN BY DATE<br>SAMIEC 2000/03/15<br>CHECKED BY DATE<br>MUELLER 2000/03/15<br>APPROVED BY DATE<br>EDGLEY 2000/03/15 | SCALE<br>---<br>DESIGN UNITS<br>METRIC<br>THIRD ANGLE PROJECTION | TITLE<br>MICRO FIT (3.0)<br>DUAL ROW RIGHT ANGLE<br>THRU HOLE HEADER W/CLIPS<br>MOLEX INCORPORATED | DOCUMENT NO.<br>SD-43045-008 | SHEET NO.<br>1 OF 1 |
|                                                                                                                                     |                                      |                                                                                                                                                                       |                                                                                                                                                  |                                                                  |                                                                                                    |                              |                     |

DRAFT WHERE APPLICABLE  
MUST REMAIN  
WITHIN DIMENSIONS

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