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**Part Number:** [0430452015](#)  
**Status:** **Active**  
**Overview:** [microfit\\_30](#)  
**Description:** 3.00mm (.118") Pitch Micro-Fit 3.0™ Header, Surface Mount, Dual Row, Vertical, with Press-fit Metal Retention Clip, 20 Circuits, Tin (Sn) Plating, Glow Wire Compatible

**Documents:**

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

**Agency Certification**

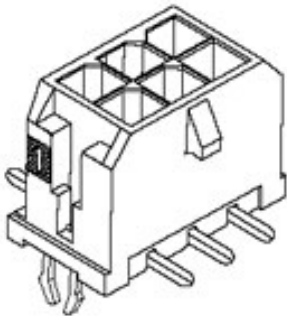
|     |           |
|-----|-----------|
| CSA | LR19980   |
| TUV | R72081037 |
| UL  | E29179    |

**General**

|                             |                                                                                                        |
|-----------------------------|--------------------------------------------------------------------------------------------------------|
| Product Family              | PCB Headers                                                                                            |
| Series                      | <a href="#">43045</a>                                                                                  |
| Application                 | Wire-to-Board                                                                                          |
| Comments                    | Glow Wire Equivalent Part Number <a href="#">430452015</a> . High Temperature, Square Pin, Solder Type |
| Overview                    | <a href="#">microfit_30</a>                                                                            |
| Product Literature Order No | USA-106                                                                                                |
| Product Name                | Micro-Fit 3.0™                                                                                         |

**Physical**

|                                |                                |
|--------------------------------|--------------------------------|
| Breakaway                      | No                             |
| Circuits (Loaded)              | 20                             |
| Circuits (maximum)             | 20                             |
| Color - Resin                  | Black                          |
| Durability (mating cycles max) | 30                             |
| Flammability                   | 94V-0                          |
| Glow-Wire Compliant            | Yes                            |
| Mated Height (in)              | 0.680 In                       |
| Mated Height (mm)              | 17.27 mm                       |
| Material - Metal               | Brass                          |
| Material - Plating Mating      | Tin                            |
| Material - Plating Termination | Tin                            |
| Material - Resin               | High Temperature Thermoplastic |
| Number of Rows                 | 2                              |
| Orientation                    | Vertical                       |
| PCB Locator                    | Yes                            |
| PCB Retention                  | Yes                            |
| PCB Thickness Recommended (in) | 0.062 In                       |
| PCB Thickness Recommended (mm) | 1.60 mm                        |
| Packaging Type                 | Embossed Tape on Reel          |
| Pitch - Mating Interface (in)  | 0.118 In                       |
| Pitch - Mating Interface (mm)  | 3.00 mm                        |
| Plating min: Mating (µin)      | 35                             |
| Plating min: Mating (µm)       | 0.88                           |
| Plating min: Termination (µin) | 35                             |
| Plating min: Termination (µm)  | 0.88                           |
| Polarized to PCB               | Yes                            |
| Shrouded                       | Fully                          |
| Stackable                      | No                             |
| Surface Mount Compatible (SMC) | N/A                            |



Series

image - Reference only

**EU RoHS**

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

**China RoHS**



**Not Reviewed**

**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  | Surface Mount   |

**Electrical**

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

**Solder Process Data**

|                                                |                           |
|------------------------------------------------|---------------------------|
| Duration at Max. Process Temperature (seconds) | 30                        |
| Lead-free Process Capability                   | Reflow Capable (SMT only) |
| Max. Cycles at Max. Process Temperature        | 3                         |
| Process Temperature max. C                     | 260                       |

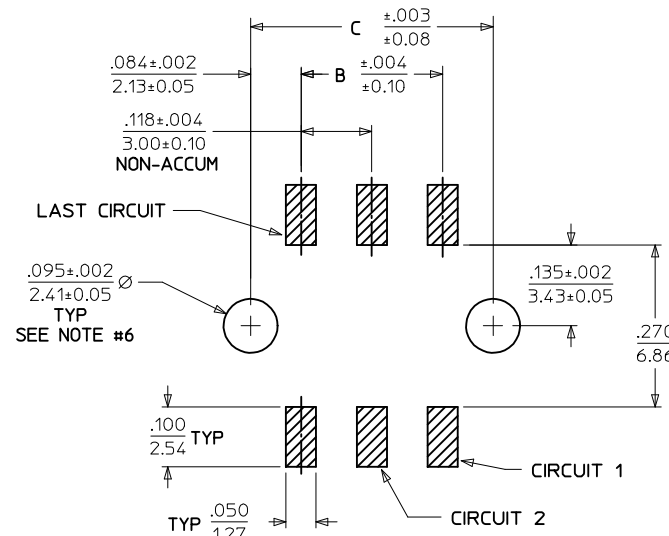
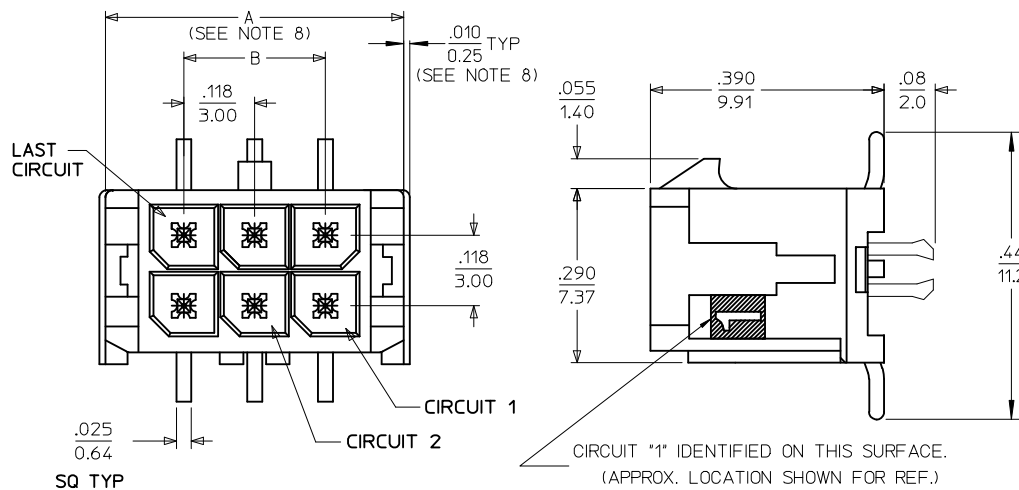
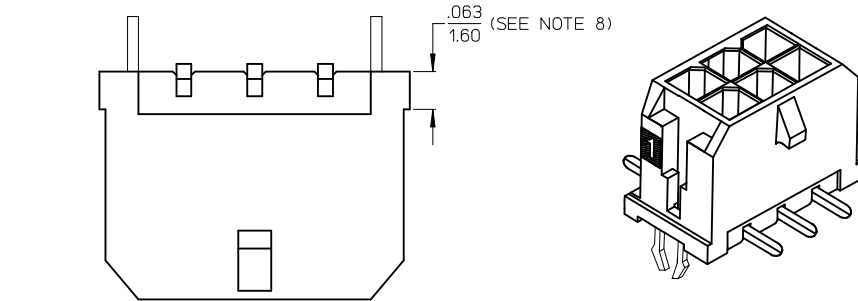
**Material Info**

**Reference - Drawing Numbers**

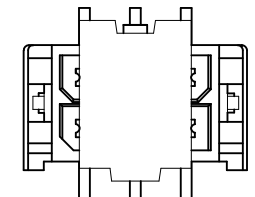
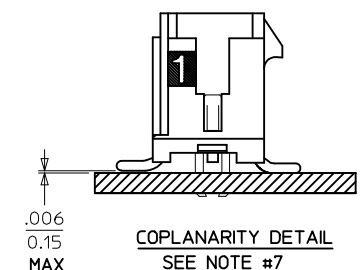
|                           |                                        |
|---------------------------|----------------------------------------|
| Application Specification | AS-43555-001                           |
| Packaging Specification   | PK-70873-05**                          |
| Product Specification     | PS-43045, RPS-43045-003, RPS-43045-004 |
| Sales Drawing             | SD-43045-006                           |
| Test Summary              | TS-43045-001                           |

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| CKTS | A<br>(SEE NOTE 8) | B              | C              |
|------|-------------------|----------------|----------------|
| 02   | .262<br>6.65      | NA             | .169<br>4.30   |
| 04   | .380<br>9.65      | .118<br>3.00   | .287<br>7.30   |
| 06   | .498<br>12.65     | .236<br>6.00   | .405<br>10.30  |
| 08   | .616<br>15.65     | .354<br>9.00   | .524<br>13.30  |
| 10   | .734<br>18.65     | .472<br>12.00  | .642<br>16.30  |
| 12   | .852<br>21.65     | .591<br>15.00  | .760<br>19.30  |
| 14   | .970<br>24.65     | .709<br>18.00  | .878<br>22.30  |
| 16   | 1.088<br>27.65    | .827<br>21.00  | .996<br>25.30  |
| 18   | 1.206<br>30.65    | .945<br>24.00  | 1.114<br>28.30 |
| 20   | 1.325<br>33.65    | 1.063<br>27.00 | 1.232<br>31.30 |
| 22   | 1.443<br>36.65    | 1.181<br>30.00 | 1.350<br>34.30 |
| 24   | 1.561<br>39.65    | 1.299<br>33.00 | 1.469<br>37.30 |



- 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
  - TAPE AND REEL PACK : SEE MOLEX DRAWING PK-70873-05\*\*
  - MATES WITH MICRO FIT (3.0) RECEPTACLE SERIES 43025
  - TO MINIMIZE INSERTION FORCE OF MOUNTING CLIPS DURING ROBOTIC PLACEMENT THE HOLE DIAMETER SHOULD BE INCREASED TO .108±.002 / 2.74±0.05 AND THEN EVALUATED PER PLACEMENT EQUIPMENT.
  - THE COPLANARITY DIMENSION IS ESTABLISHED BY PLACING THE ASSEMBLY ON A FLAT SURFACE. THE DISTANCE FROM THAT SURFACE TO THE BOTTOM OF ANY TERMINAL MUST NOT EXCEED .006/0.15
  - .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.
  - THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

|      | FINISH A     | FINISH B     | FINISH C     |
|------|--------------|--------------|--------------|
| CKTS | MATERIAL NO: | MATERIAL NO: | MATERIAL NO: |
| 02   | 43045-0215   | 43045-0216   | 43045-0217   |
| 04   | 43045-0415   | 43045-0416   | 43045-0417   |
| 06   | 43045-0615   | 43045-0616   | 43045-0617   |
| 08   | 43045-0815   | 43045-0816   | 43045-0817   |
| 10   | 43045-1015   | 43045-1016   | 43045-1017   |
| 12   | 43045-1215   | 43045-1216   | 43045-1217   |
| 14   | 43045-1415   | 43045-1416   | 43045-1417   |
| 16   | 43045-1615   | 43045-1616   | 43045-1617   |
| 18   | 43045-1815   | 43045-1816   | 43045-1817   |
| 20   | 43045-2015   | 43045-2016   | 43045-2017   |
| 22   | 43045-2215   | 43045-2216   | 43045-2217   |
| 24   | 43045-2415   | 43045-2416   | 43045-2417   |

|                                                                                                                         |                               |                                                                                                                                                                       |                                                                                                                                                  |                                                                                                                                  |                                                                                                 |                              |                     |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------|---------------------|
| ADD .44/.12 DIM<br>EC NO: UCP2009-1183<br>DRWN:SSOUSEK 2008/11/06<br>CHKD:MK/PPER 2008/11/11<br>APPR:FSM/LTH 2008/11/11 | QUALITY SYMBOLS<br>▽=0<br>▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)<br>mm INCH<br>4 PLACES ± --- ± ---<br>3 PLACES ± --- ± .010<br>2 PLACES ± .025 ± .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>EDGLEJ 2000/03/15 | SCALE<br>1:1<br>DESIGN UNITS<br>METRIC<br>THIRD ANGLE PROJECTION                                                                 | TITLE<br>MICRO FIT (3.0)<br>DUAL ROW VERTICAL SMT<br>HEADER W/CLIPS ASS'Y<br>MOLEX INCORPORATED | DOCUMENT NO.<br>SD-43045-006 | SHEET NO.<br>1 OF 1 |
|                                                                                                                         |                               |                                                                                                                                                                       |                                                                                                                                                  |                                                                                                                                  |                                                                                                 |                              |                     |
|                                                                                                                         |                               |                                                                                                                                                                       |                                                                                                                                                  |                                                                                                                                  |                                                                                                 |                              |                     |
|                                                                                                                         |                               |                                                                                                                                                                       |                                                                                                                                                  |                                                                                                                                  |                                                                                                 |                              |                     |
| F2                                                                                                                      | REV                           | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS                                                                                                            | SIZE<br>C                                                                                                                                        | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                                                 |                              |                     |