

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0436501114](#)
Status: **Active**
Overview: [microfit_30](#)
Description: 3.00mm (.118") Pitch Micro-Fit 3.0™ Header, Surface Mount Compatible, Single Row, Right Angle, with Solder Tab, 11 Circuits, 0.76µm (30µ") Gold (Au) Selective Plating, Glow Wire Compatible

Documents:

[3D Model](#) [Product Specification PS-43650 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

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

General

| | |
|-----------------------------|---|
| Product Family | PCB Headers |
| Series | 43650 |
| 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) | 11 |
| Circuits (maximum) | 11 |
| Color - Resin | Black |
| Durability (mating cycles max) | 30 |
| Flammability | 94V-0 |
| Glow-Wire Compliant | Yes |
| Mated Height (in) | 0.275 In |
| Mated Height (mm) | 6.98 mm |
| Material - Plating Mating | Gold |
| Material - Plating Termination | Tin |
| Number of Rows | 1 |
| 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 | Embossed Tape on Reel |
| 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 |
| Temperature Range - Operating | -40°C to +105°C |
| Termination Interface: Style | Surface Mount |

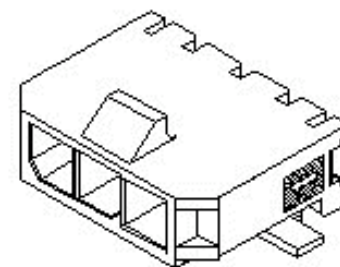


image - Reference only

Series

EU RoHS

ELV and RoHS Compliant
REACH SVHC Contains SVHC: No
Halogen-Free Status
Not Reviewed

China RoHS



Need more information on product environmental compliance?

Email 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](#)

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 |

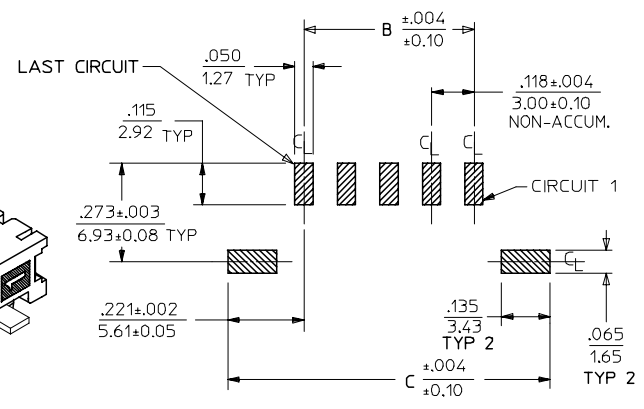
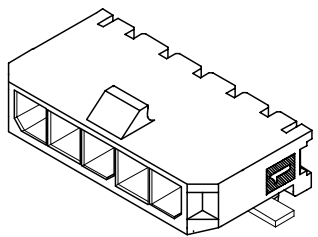
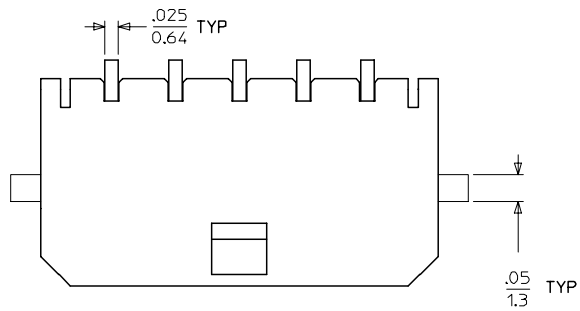
Material Info**Reference - Drawing Numbers**

| | |
|-------------------------|---------------|
| Packaging Specification | PK-70873-07** |
| Product Specification | PS-43650 |
| Sales Drawing | SD-43650-005 |
| Test Summary | TS-43045-002 |

This document was generated on 05/24/2010

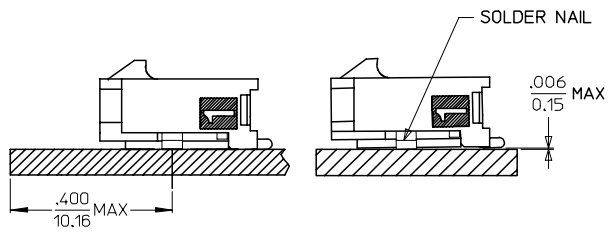
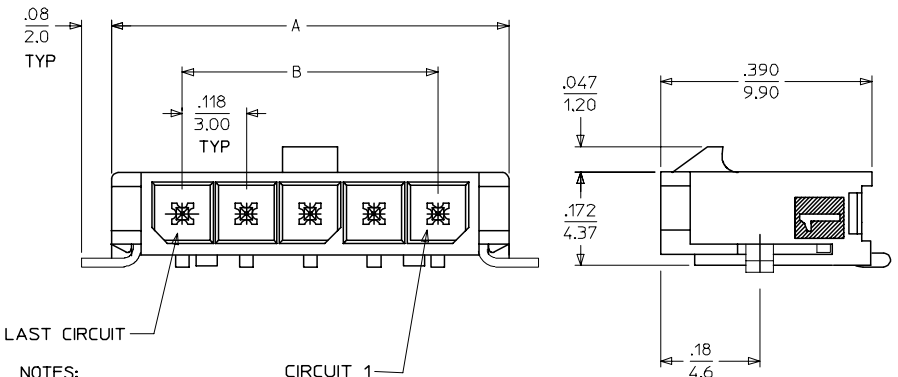
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

13 12 11 10 9 8 7 6 5 4 3 2 1



| CKTS | A | B | C |
|------|----------------|----------------|----------------|
| 2 | .380 9.65 | .118 3.00 | .559 14.20 |
| 3 | .498 12.65 | .236 6.00 | .677 17.20 |
| 4 | .616 15.65 | .354 9.00 | .795 20.20 |
| 5 | .734 18.64 | .472 12.00 | .913 23.20 |
| 6 | .852 21.64 | .591 15.00 | 1.031 26.20 |
| 7 | .970 24.64 | .709 18.00 | 1.150 29.20 |
| 8 | 1.088 27.64 | .827 21.00 | 1.268 32.20 |
| 9 | 1.206 30.63 | .945 24.00 | 1.386 35.20 |
| 10 | 1.325 33.66 | 1.063 27.00 | 1.504 38.20 |
| 11 | 1.443 36.65 | 1.181 30.00 | 1.622 41.20 |
| 12 | 1.561 39.65 | 1.299 33.00 | 1.740 44.20 |

PCB LAYOUT: COMPONENT SIDE



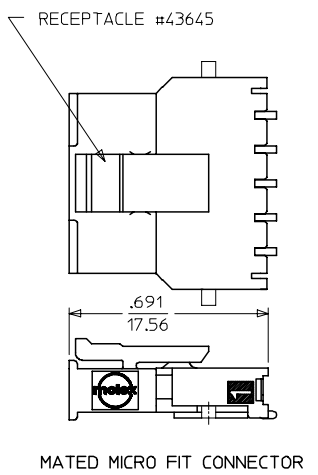
LOCATION DETAIL SEE NOTE #7
COPLANARITY DETAIL SEE NOTE #6

- NOTES:
- HOUSING MATERIAL: LIQUID CRYSTAL POLYMER, GLASS FILLED, UL94V-0, COLOR: BLACK
TERMINAL MATERIAL: BRASS ALLOY
 - FINISH: A = .000100/(0.00254) MIN. BRIGHT TIN OVER .000050/(0.00127) MIN. NICKEL
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) NICKEL OVERALL
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) NICKEL OVERALL

* 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-43650
- TAPE AND REEL PACKAGED : SEE MOLEX DRAWING PK-70873-07**
- MATES WITH MICRO FIT (3.0) RECEPTACLE SERIES 43645
- THE COPLANARITY DIMENSION IS ESTABLISHED BY PLACING THE ASSEMBLY ON A FLAT SURFACE. THE DISTANCE FROM THAT SURFACE TO THE BOTTOM OF ANY TERMINAL OR NAIL MUST NOT EXCEED .006/0.15
- 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.
- A HIGHER TEMPERATURE GRADE MATERIAL (260C MAX. REFLOW TEMPERATURE) IS BEING PHASED-IN BEGINNING AUGUST 2007. PARTS WILL BE TEMPORARILY IDENTIFIED WITH A BLUE DOT ON THE PRIMARY SHIPPING CARTON LABEL UNTIL ALL CIRCUIT SIZES ARE CONVERTED. AT WHICH TIME A FULL-CONVERSION DATE WILL BE IDENTIFIED IN PS-43650.

| CKTS | FINISH A | FINISH B | FINISH C |
|------|--------------|--------------|--------------|
| | MATERIAL NO: | MATERIAL NO: | MATERIAL NO: |
| 02 | 43650-0212 | 43650-0213 | 43650-0214 |
| 03 | 43650-0312 | 43650-0313 | 43650-0314 |
| 04 | 43650-0412 | 43650-0413 | 43650-0414 |
| 05 | 43650-0512 | 43650-0513 | 43650-0514 |
| 06 | 43650-0612 | 43650-0613 | 43650-0614 |
| 07 | 43650-0712 | 43650-0713 | 43650-0714 |
| 08 | 43650-0812 | 43650-0813 | 43650-0814 |
| 09 | 43650-0912 | 43650-0913 | 43650-0914 |
| 10 | 43650-1012 | 43650-1013 | 43650-1014 |
| 11 | 43650-1112 | 43650-1113 | 43650-1114 |
| 12 | 43650-1212 | 43650-1213 | 43650-1214 |



| | | | | | | |
|--|-------------------------------|---|--|---|--|--|
| ADD NOTES 7 AND 8 EC NO: UCP2008-0037 DRAWN: HK/PPER 2007/09/06 CHKD: SSOUSEK 2007/09/11 APPR: FSM/TH 2007/09/12 | QUALITY SYMBOLS ▽=0 ▽=0 | GENERAL TOLERANCES (UNLESS SPECIFIED) | | DIMENSION STYLE IN/MM | | SCALE --- DESIGN UNITS METRIC THIRD ANGLE PROJECTION |
| | | 4 PLACES ± --- ± --- 3 PLACES ± --- ± .010 2 PLACES ± 0.25 ± .014 1 PLACE ± 0.36 ± --- | | DRAWN BY SAMIEC DATE 2000/07/07 CHECKED BY MUELLER DATE 2000/07/07 APPROVED BY EDGLEY DATE 2000/07/07 | | |
| | | ANGULAR ±1/2° | | MATERIAL NO. SEE CHART DOCUMENT NO. SD-43650-005 | | |
| | | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS | | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | |

12 11 10 9 8 7 6 5 4 3 2 1