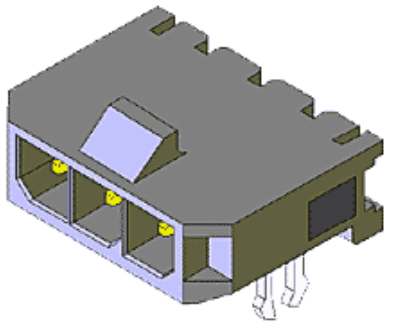
This document was generated on 05/24/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0436500303
Status: Active
Overview: microfit_30
Description: 3.00mm (.118") Pitch Micro-Fit 3.0™ Header, Surface Mount Compatible, Single Row, Right Angle, with Press-fit Metal Retention Clip, 3 Circuits, Tin (Sn) Plating, Glow Wire Compatible



Series image - Reference only

Documents:

- 3D Model
- Packaging Specification (PDF)
- Drawing (PDF)
- Product Specification PS-43650 (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)	3
Circuits (maximum)	3
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 - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
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	Tray
Pitch - Mating Interface (in)	0.118 In
Pitch - Mating Interface (mm)	3.00 mm
Plating min: Mating (µin)	100
Plating min: Mating (µm)	2.50
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.50
Polarized to PCB	Yes
Shrouded	Fully
Stackable	No

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
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

Surface Mount Compatible (SMC)	Yes
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Through Hole

Electrical

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

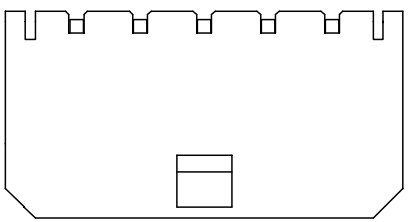
Solder Process Data

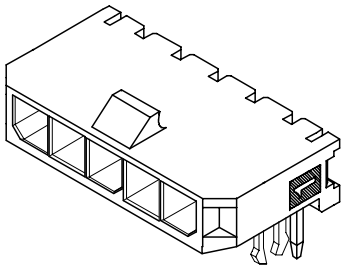
Duration at Max. Process Temperature (seconds)	30
Lead-free Process Capability	SMC & Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	3
Process Temperature max. C	260

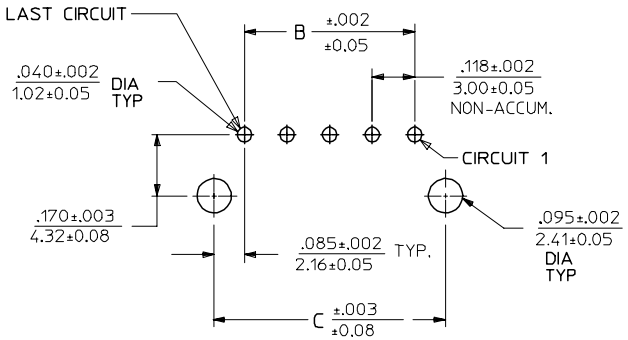
Material Info

Reference - Drawing Numbers

Packaging Specification	PK-70873-0321
Product Specification	PS-43650
Sales Drawing	SD-43650-002

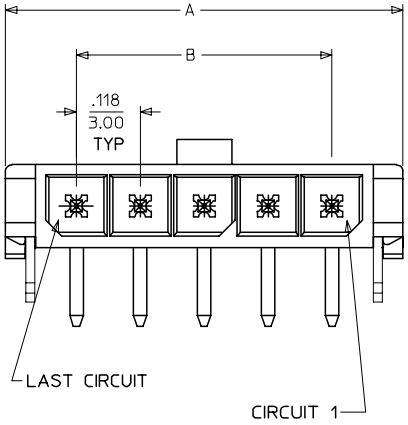


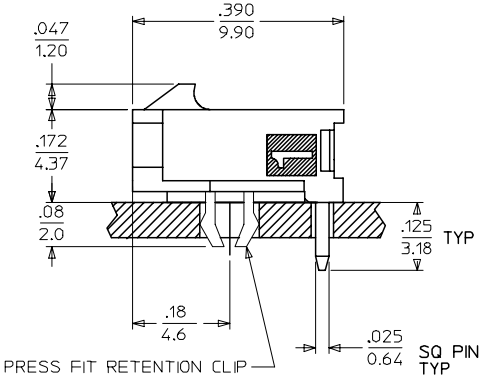


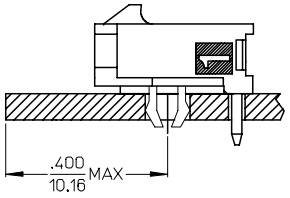


PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS: .062/1.57

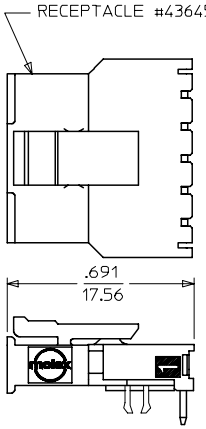
CKTS	DIM A	DIM B	DIM C
2	.380 / 9.65	.118 / 3.00	.287 / 7.30
3	.498 / 12.65	.236 / 6.00	.405 / 10.30
4	.616 / 15.65	.354 / 9.00	.524 / 13.30
5	.734 / 18.64	.472 / 12.00	.642 / 16.30
6	.852 / 21.64	.591 / 15.00	.760 / 19.30
7	.970 / 24.64	.709 / 18.00	.878 / 22.30
8	1.088 / 27.64	.827 / 21.00	.996 / 25.30
9	1.206 / 30.63	.945 / 24.00	1.114 / 28.30
10	1.325 / 33.66	1.063 / 27.00	1.232 / 31.30
11	1.443 / 36.65	1.181 / 30.00	1.350 / 34.30
12	1.561 / 39.65	1.299 / 33.00	1.469 / 37.30







LOCATION DETAIL
SEE NOTE #6



MATED MICRO FIT CONNECTOR

NOTES:

1. HOUSING MATERIAL: LIQUID CRYSTAL POLYMER, GLASS FILLED, UL94V-0, COLOR: BLACK
   TERMINAL MATERIAL: BRASS ALLOY
2. 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.
3. PRODUCT SPECIFICATION: PS-43650
4. TRAY PACKAGED : SEE MOLEX DRAWING PK-70873-0321
5. MATES WITH MICRO FIT (3.0) RECEPTACLE SERIES 43645
6. 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.
7. 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 MATERIAL NO:	FINISH B MATERIAL NO:	FINISH C MATERIAL NO:
02	43650-0203	43650-0204	43650-0205
03	43650-0303	43650-0304	43650-0305
04	43650-0403	43650-0404	43650-0405
05	43650-0503	43650-0504	43650-0505
06	43650-0603	43650-0604	43650-0605
07	43650-0703	43650-0704	43650-0705
08	43650-0803	43650-0804	43650-0805
09	43650-0903	43650-0904	43650-0905
10	43650-1003	43650-1004	43650-1005
11	43650-1103	43650-1104	43650-1105
12	43650-1203	43650-1204	43650-1205

REV | DESCRIPTION | DRWN | CHKD | APPR | DATE
E | ADD NOTES 6 &7 EC NO: UCP2008-0037 | MKIPPER | SSOUSEK | FSMITH | 2007/09/06 2007/09/11 2007/09/12

QUALITY SYMBOLS: ▼=0 ▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± .014
1 PLACE	± 0.36	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM | SCALE: --- | DESIGN UNITS: METRIC | THIRD ANGLE PROJECTION

DRAWN BY: SAMIEC 2000/07/07
CHECKED BY: MUELLER 2000/07/07
APPROVED BY: EDGLEY 2000/07/07

TITLE: MICRO FIT (3.0) SINGLE ROW / RIGHT ANGLE THRU HOLE / CLIPS / TRAY

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-43650-002
SHEET NO.: 1 OF 1
SIZE: C

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