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Part Number: [0436500227](#)
Status: **Active**
Overview: [microfit_30](#)
Description: 3.00mm (.118") Pitch Micro-Fit 3.0™ Header, Surface Mount Compatible, Single Row, Vertical, with PCB Polarizing Peg, 2 Circuits, Tin (Sn) Plating, Glow Wire Compatible

Documents:

3D Model	Product Specification PS-43650 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)
Packaging Specification (PDF)	

Agency Certification

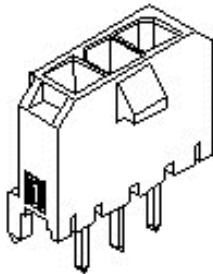
CSA	LR19980
TUV	R72081037
UL	E29179

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)	2
Circuits (maximum)	2
Color - Resin	Black
Durability (mating cycles max)	30
Flammability	94V-0
Glow-Wire Compliant	Yes
Lock to Mating Part	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	1
Orientation	Vertical
PC Tail Length (in)	0.125 In
PC Tail Length (mm)	3.18 mm
PCB Locator	Yes
PCB Retention	None
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)	2.5
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.5
Polarized to PCB	Yes



Series

image - Reference only

EU RoHS

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

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

Shrouded	Fully
Stackable	No
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

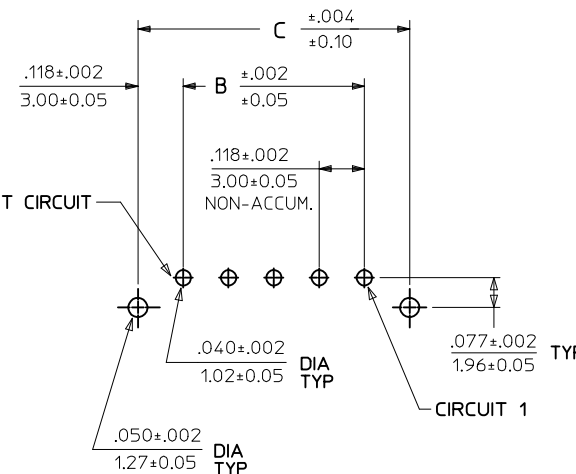
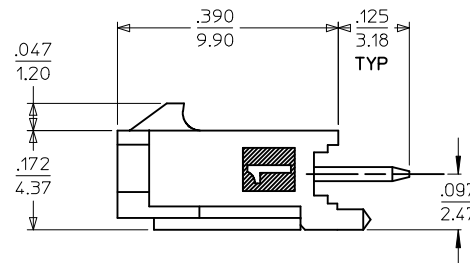
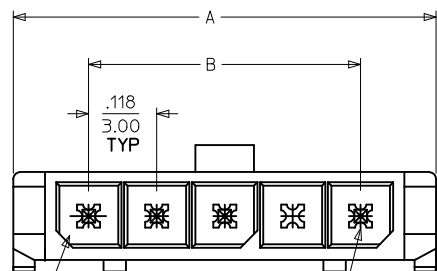
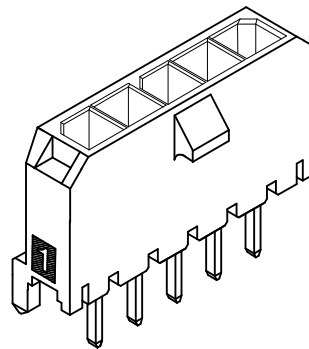
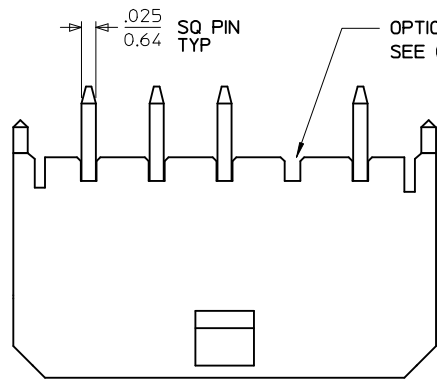
Material Info

Reference - Drawing Numbers

Packaging Specification	PK-70873-0811
Product Specification	PS-43650
Sales Drawing	SD-43650-010

This document was generated on 05/24/2010

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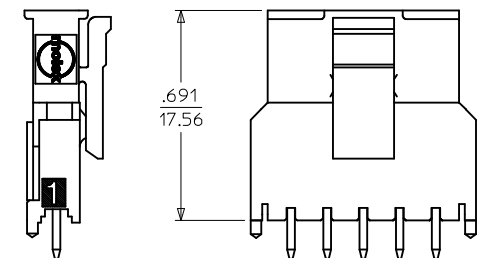
PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS: .062/157

CKTS	A	B	C
2	.380 9.65	.118 3.00	.354 9.00
3	.498 12.65	.236 6.00	.472 12.00
4	.616 15.65	.354 9.00	.591 15.00
5	.734 18.64	.472 12.00	.709 18.00
6	.852 21.64	.591 15.00	.827 21.00
7	.970 24.64	.709 18.00	.945 24.00
8	1.088 27.64	.827 21.00	1.063 27.00
9	1.206 30.63	.945 24.00	1.181 30.00
10	1.325 33.66	1.063 27.00	1.299 33.00
11	1.443 36.65	1.181 30.00	1.417 36.00
12	1.561 39.65	1.299 33.00	1.535 39.00

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
- TRAY PACKAGED : SEE MOLEX DRAWING PK-70873-0811
- MATES WITH MICRO FIT (3.0) RECEPTACLE SERIES 43645
- PARTS CONFORM TO CLASS 'B' REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

CKTS	FINISH A	VOID CKTS	FINISH B	VOID CKTS	FINISH C	VOID CKTS
	MATERIAL NO:		MATERIAL NO:		MATERIAL NO:	
02	43650-0227		43650-0228		43650-0229	
03	43650-0327		43650-0328		43650-0329	
04	43650-0427		43650-0428		43650-0429	
05	43650-0527		43650-0528		43650-0529	
06	43650-0627		43650-0628		43650-0629	
07	43650-0727		43650-0728		43650-0729	
08	43650-0827	2,3	43650-0828		43650-0829	
09	43650-0927		43650-0928		43650-0929	
10	43650-1027		43650-1028		43650-1029	
11	43650-1127		43650-1128		43650-1129	
12	43650-1227	2,3,4	43650-1228		43650-1229	
04	43650-0451					
05	43650-0551					
06			43650-0652	2,3,4,5		



MATED MICRO FIT CONNECTORS

ADD VOID PARTS EC NO: UCP2010-0036 DRAWN:SSOUSEK CHKD:JBELL APPR:FSM/TH 2009/07/13 2009/07/13 2009/07/14	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table><tr><td></td><td>mm</td><td>INCH</td></tr><tr><td>4 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>3 PLACES</td><td>± ---</td><td>± .010</td></tr><tr><td>2 PLACES</td><td>± 0.25</td><td>± .014</td></tr><tr><td>1 PLACE</td><td>± 0.36</td><td>± ---</td></tr><tr><td colspan="3">ANGULAR ± 1/2°</td></tr></table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± .010	2 PLACES	± 0.25	± .014	1 PLACE	± 0.36	± ---	ANGULAR ± 1/2°			DIMENSION STYLE IN/MM DRAWN BY DATE SAMIEC 2000/07/07 CHECKED BY DATE MUELLER 2000/07/07 APPROVED BY DATE EDGLEY 2000/07/07	SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	TITLE MICRO FIT (3.0) SINGLE ROW / VERTICAL THRU HOLE / PEGS / TRAY MOLEX INCORPORATED	DOCUMENT NO. SD-43650-010	SHEET NO. 1 OF 1
					mm	INCH																						
				4 PLACES	± ---	± ---																						
				3 PLACES	± ---	± .010																						
				2 PLACES	± 0.25	± .014																						
1 PLACE	± 0.36	± ---																										
ANGULAR ± 1/2°																												
D1			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																							