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Part Number:	**0449141001**
Status:	**Active**
Overview:	microfit_30
Description:	3.00mm (.118") Pitch Micro-Fit 3.0 CPI™ Header, Compliant Pin Interface, Dual Row, Vertical, 10 Circuits, Tin (Sn) Plating, Glow Wire Compatible

Documents:

3D Model	Product Specification PS-43045 (PDF)
Drawing (PDF)	RoHS Certificate of Compliance (PDF)

Series image - Reference only

Agency Certification

CSA	LR19980
TUV	R72081037
UL	E29179

General

Product Family	PCB Headers
Series	44914
Application	Wire-to-Board
Application Tooling Part Link	622008400
Comments	Glow Wire Equivalent Part Number 449141001 . High Temperature, Square Pin
Overview	microfit_30
Product Literature Order No	USA-106
Product Name	Micro-Fit 3.0 CPI™

Physical

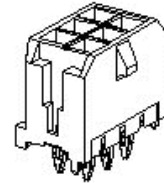|	
Breakaway	No
Circuits (Loaded)	10
Circuits (maximum)	10
Color - Resin	Black
Durability (mating cycles max)	30
Flammability	94V-0
Glow-Wire Compliant	Yes
Material - Metal	High Performance Alloy (HPA)
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Vertical
PCB Locator	Yes
PCB Retention	Yes
Packaging Type	Tray
Pitch - Mating Interface (in)	0.118 In
Pitch - Mating Interface (mm)	3.00 mm
Plating min: Mating (µin)	200
Plating min: Mating (µm)	5
Plating min: Termination (µin)	200
Plating min: Termination (µm)	5
Polarized to PCB	Yes
Shrouded	Fully
Stackable	No
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Through Hole - Compliant Pin

EU RoHS | **China RoHS**

ELV and RoHS Compliant

REACH SVHC
Contains SVHC: No
Halogen-Free Status
Halogen-Free

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
44914Series

Mates With
43025-1000

Application Tooling | **FAQ**
Tooling specifications and manuals are found by selecting the products below. Crimp Height Specifications are then contained in the Application Tooling Specification document.
Global

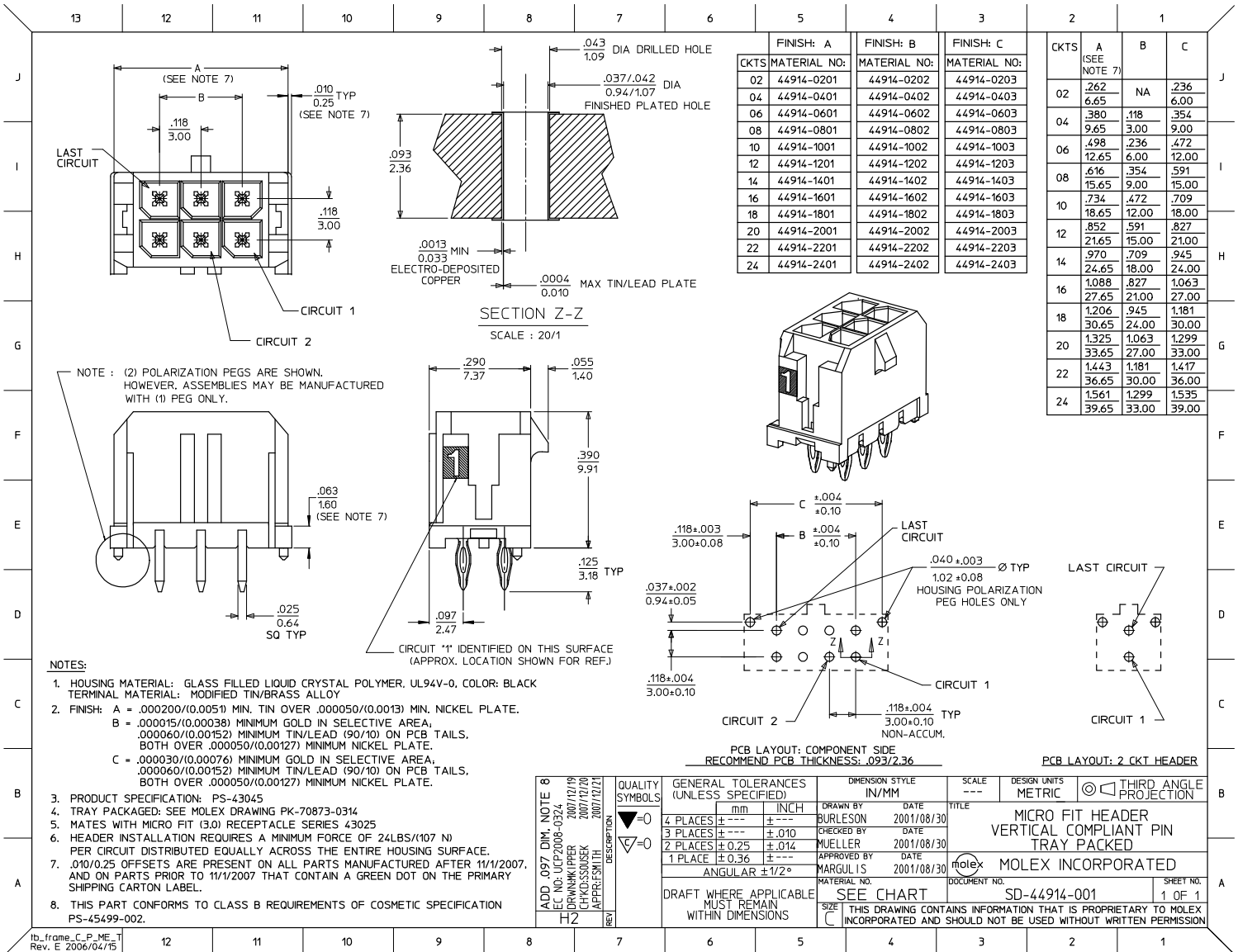| Description	Product #
Micro-Fit™ Compliant Pin Insertion Flat Rock Tool	0622008400

Electrical

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

Material Info

Reference - Drawing Numbers

Packaging Specification   PK-70873-0314
Product Specification   PS-43045, RPS-43045-003, RPS-43045-004
Sales Drawing   SD-44914-001

This document was generated on 05/24/2010
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

.043 / 1.09 DIA DRILLED HOLE

.037/.042 / 0.94/1.07 DIA FINISHED PLATED HOLE

.093 / 2.36

.0013 / 0.033 MIN ELECTRO-DEPOSITED COPPER

.0004 / 0.010 MAX TIN/LEAD PLATE

SECTION Z-Z
SCALE : 20/1

A (SEE NOTE 7)
B
.118 / 3.00
.010 / 0.25 TYP (SEE NOTE 7)

LAST CIRCUIT
.118 / 3.00

CIRCUIT 1
CIRCUIT 2

NOTE : (2) POLARIZATION PEGS ARE SHOWN. HOWEVER, ASSEMBLIES MAY BE MANUFACTURED WITH (1) PEG ONLY.

.290 / 7.37
.055 / 1.40
.390 / 9.91
.063 / 1.60 (SEE NOTE 7)
.125 / 3.18 TYP
.097 / 2.47
.025 / 0.64 SQ TYP

CIRCUIT "1" IDENTIFIED ON THIS SURFACE (APPROX. LOCATION SHOWN FOR REF.)

CKTS	FINISH: A MATERIAL NO:	FINISH: B MATERIAL NO:	FINISH: C MATERIAL NO:
02	44914-0201	44914-0202	44914-0203
04	44914-0401	44914-0402	44914-0403
06	44914-0601	44914-0602	44914-0603
08	44914-0801	44914-0802	44914-0803
10	44914-1001	44914-1002	44914-1003
12	44914-1201	44914-1202	44914-1203
14	44914-1401	44914-1402	44914-1403
16	44914-1601	44914-1602	44914-1603
18	44914-1801	44914-1802	44914-1803
20	44914-2001	44914-2002	44914-2003
22	44914-2201	44914-2202	44914-2203
24	44914-2401	44914-2402	44914-2403

CKTS	A (SEE NOTE 7)	B	C
02	.262 / 6.65	NA	.236 / 6.00
04	.380 / 9.65	.118 / 3.00	.354 / 9.00
06	.498 / 12.65	.236 / 6.00	.472 / 12.00
08	.616 / 15.65	.354 / 9.00	.591 / 15.00
10	.734 / 18.65	.472 / 12.00	.709 / 18.00
12	.852 / 21.65	.591 / 15.00	.827 / 21.00
14	.970 / 24.65	.709 / 18.00	.945 / 24.00
16	1.088 / 27.65	.827 / 21.00	1.063 / 27.00
18	1.206 / 30.65	.945 / 24.00	1.181 / 30.00
20	1.325 / 33.65	1.063 / 27.00	1.299 / 33.00
22	1.443 / 36.65	1.181 / 30.00	1.417 / 36.00
24	1.561 / 39.65	1.299 / 33.00	1.535 / 39.00

C ±.004 / ±0.10
.118±.003 / 3.00±0.08
B ±.004 / ±0.10
LAST CIRCUIT
.040±.003 / 1.02±0.08 Ø TYP HOUSING POLARIZATION PEG HOLES ONLY
LAST CIRCUIT
.037±.002 / 0.94±0.05
CIRCUIT 1
.118±.004 / 3.00±0.10
CIRCUIT 1
CIRCUIT 2
.118±.004 / 3.00±0.10 TYP NON-ACCUM.

PCB LAYOUT: COMPONENT SIDE
RECOMMEND PCB THICKNESS: .093/2.36

PCB LAYOUT: 2 CKT HEADER

NOTES:
1. HOUSING MATERIAL: GLASS FILLED LIQUID CRYSTAL POLYMER, UL94V-0, COLOR: BLACK TERMINAL MATERIAL: MODIFIED TIN/BRASS ALLOY
2. FINISH: A = .000200/(0.0051) MIN. TIN OVER .000050/(0.0013) MIN. NICKEL PLATE.
   B = .000015/(0.00038) MINIMUM GOLD IN SELECTIVE AREA, .000060/(0.00152) MINIMUM TIN/LEAD (90/10) ON PCB TAILS, BOTH OVER .000050/(0.00127) MINIMUM NICKEL PLATE.
   C = .000030/(0.00076) MINIMUM GOLD IN SELECTIVE AREA, .000060/(0.00152) MINIMUM TIN/LEAD (90/10) ON PCB TAILS, BOTH OVER .000050/(0.00127) MINIMUM NICKEL PLATE.
3. PRODUCT SPECIFICATION: PS-43045
4. TRAY PACKAGED: SEE MOLEX DRAWING PK-70873-0314
5. MATES WITH MICRO FIT (3.0) RECEPTACLE SERIES 43025
6. HEADER INSTALLATION REQUIRES A MINIMUM FORCE OF 24LBS/(107 N) PER CIRCUIT DISTRIBUTED EQUALLY ACROSS THE ENTIRE HOUSING SURFACE.
7. .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.
8. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

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°		

DIMENSION STYLE IN/MM
DRAWN BY: BURLESON DATE 2001/08/30
CHECKED BY: MUELLER DATE 2001/08/30
APPROVED BY: MARGULIS DATE 2001/08/30

SCALE ---
DESIGN UNITS METRIC
THIRD ANGLE PROJECTION

TITLE
MICRO FIT HEADER VERTICAL COMPLIANT PIN TRAY PACKED

molex MOLEX INCORPORATED

MATERIAL NO: SEE CHART
DOCUMENT NO: SD-44914-001
SHEET NO. 1 OF 1
SIZE C

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

ADD .097 DIM, NOTE 8 2007/12/19
EC NO: UCP2008-0324 2007/12/20
DRWN:MKIPPER 2007/12/21
CHKD:SSOUSEK
APPR:FSMITH
H2
REV DESCRIPTION

tb_frame_C_P_ME_T Rev. E 2006/04/15