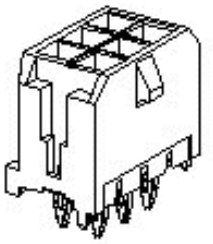
This document was generated on 05/24/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0449142202
Status: Active
Overview: microfit_30
Description: 3.00mm (.118") Pitch Micro-Fit 3.0 CPI™ Header, Dual Row, Vertical, Compliant Pin Interface, 22 Circuits, LCP, Glass-Filled, UL 94V-0, 0.38µm (15µ") Gold (Au) Selective Contact Plating, Tin/Lead (Sn/Pb) Plated Tails, Glow Wire Compatible



Series image - Reference only

Documents:

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

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 449142202. 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)	22
Circuits (maximum)	22
Durability (mating cycles max)	30
Flammability	94V-0
Glow-Wire Compliant	Yes
Lock to Mating Part	Yes
Material - Metal	High Performance Alloy (HPA)
Material - Plating Mating	Gold
Material - Plating Termination	90/10 Tin Lead
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)	15.2
Plating min: Mating (µm)	0.38
Plating min: Termination (µin)	50
Plating min: Termination (µm)	1.25
Polarized to Mating Part	Yes
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
RoHS Compliant by Exemption
REACH SVHC
Contains SVHC: No
Halogen-Free Status
Halogen-Free

China RoHS
50
Pb

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
43025-2200 Receptacle

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

Solder Process Data

Replacement RoHS Compliant Part Number	0449147202

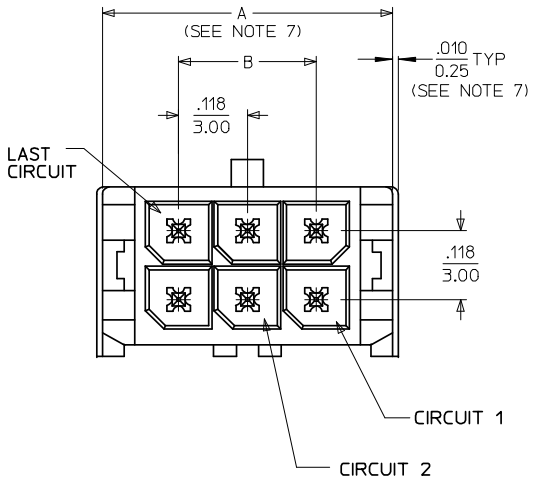
Material Info

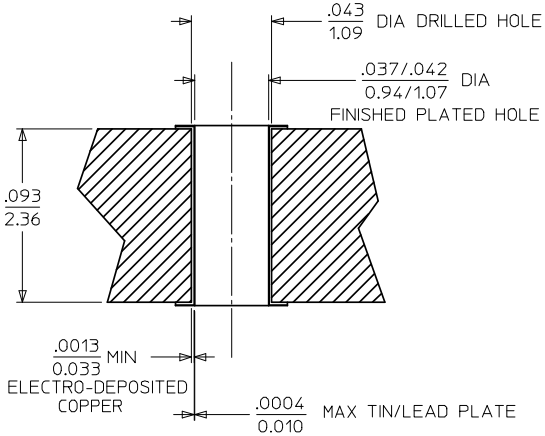
Reference - Drawing Numbers

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





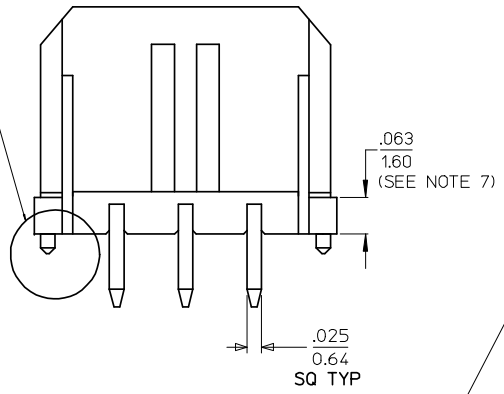
SECTION Z-Z

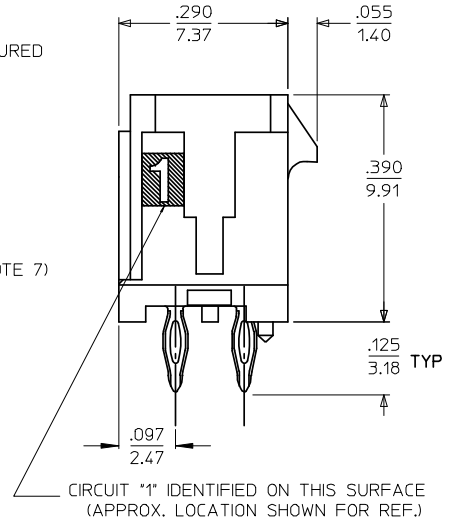
SCALE : 20/1

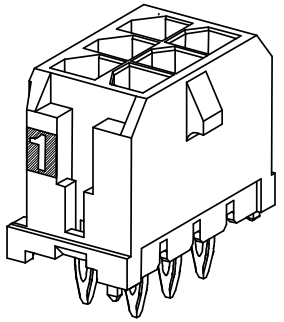
CKTS	FINISH: A MATERIAL NO:	FINISH: B MATERIAL NO:	FINISH: C MATERIAL NO:
02	44914-0201	44914-0202	44914-0203
04	44914-0401	44914-0402	44914-0403
06	44914-0601	44914-0602	44914-0603
08	44914-0801	44914-0802	44914-0803
10	44914-1001	44914-1002	44914-1003
12	44914-1201	44914-1202	44914-1203
14	44914-1401	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

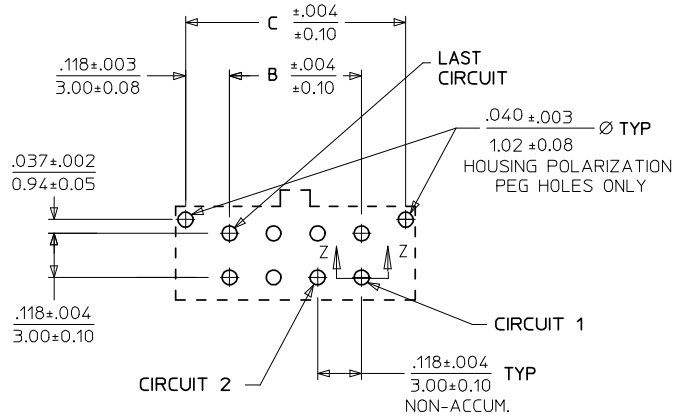
CKTS	A (SEE NOTE 7)	B	C
02	.262 / 6.65	NA	.236 / 6.00
04	.380 / 9.65	.118 / 3.00	.354 / 9.00
06	.498 / 12.65	.236 / 6.00	.472 / 12.00
08	.616 / 15.65	.354 / 9.00	.591 / 15.00
10	.734 / 18.65	.472 / 12.00	.709 / 18.00
12	.852 / 21.65	.591 / 15.00	.827 / 21.00
14	.970 / 24.65	.709 / 18.00	.945 / 24.00
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

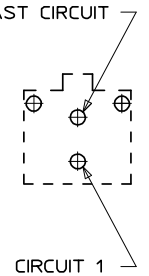
NOTE : (2) POLARIZATION PEGS ARE SHOWN.
HOWEVER, ASSEMBLIES MAY BE MANUFACTURED
WITH (1) PEG ONLY.











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.

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

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	BURLESON	DATE 2001/08/30
CHECKED BY	MUELLER	DATE 2001/08/30
APPROVED BY	MARGULIS	DATE 2001/08/30

TITLE: MICRO FIT HEADER
VERTICAL COMPLIANT PIN
TRAY PACKED

MOLEX INCORPORATED

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

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION