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Part Number:

0430451401

Status:

Active

Overview:

microfit_30

Description:

3.00mm (.118") Pitch Micro-Fit 3.0™ Header, Surface Mount Compatible, Dual Row, Right Angle, with Snap-in Plastic Peg PCB Lock, 14 Circuits, 0.38µm (15µ") Gold (Au) Selective Plating, Glow Wire Compatible

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	43045
Application	Wire-to-Board
Comments	Glow Wire Equivalent Part Number 430451401. 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)	14
Circuits (maximum)	14
Color - Resin	Black
Durability (mating cycles max)	30
Flammability	94V-0
Glow-Wire Compliant	Yes
Mated Height (in)	0.405 In
Mated Height (mm)	10.29 mm
Material - Metal	Brass
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
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)	15
Plating min: Mating (µm)	0.375
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.5
Polarized to PCB	Yes
Shrouded	Fully
Stackable	No

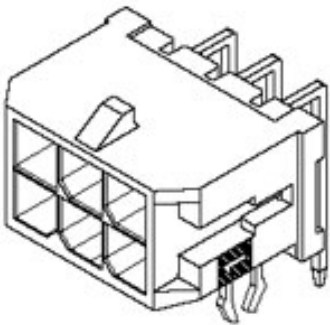


image - Reference only

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

43045Series

Mates With

43025

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

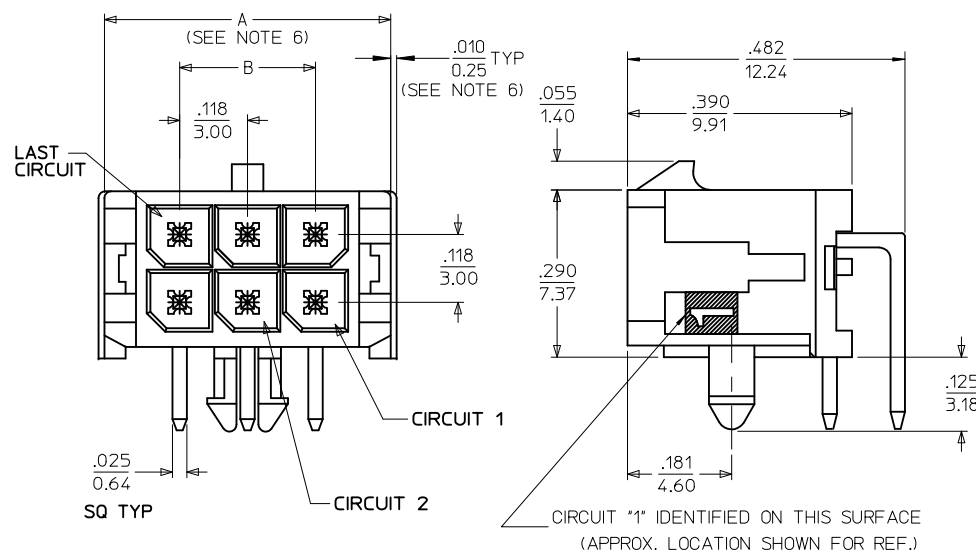
Material Info

Reference - Drawing Numbers

Packaging Specification	PK-70873-0313
Product Specification	PS-43045, RPS-43045-003, RPS-43045-004
Sales Drawing	SD-43045-001
Test Summary	TS-43045-001, TS-43045-002

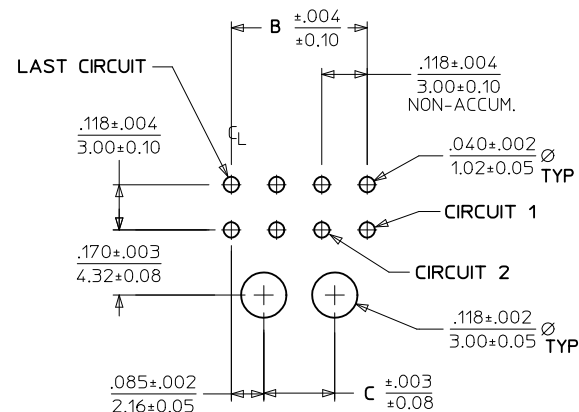
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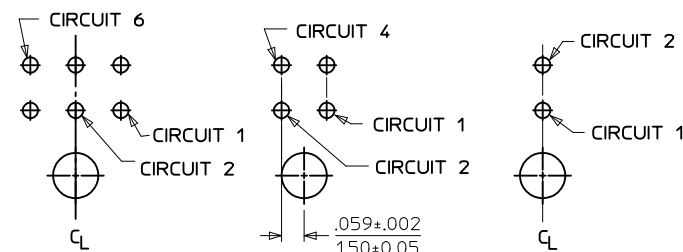


NOTES:

1. HOUSING MATERIAL: GLASS FILLED LIQUID CRYSTAL POLYMER, UL94V-0, COLOR: BLACK
TERMINAL MATERIAL: BRASS ALLOY
2. FINISH: A = .000100/(0.00254) MIN. TIN OVER
.000050/(0.00127) MIN. NICKEL PLATE.
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) MIN. NICKEL PLATE.
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) MIN. NICKEL PLATE.
* 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-43045
4. TRAY PACKAGED : SEE MOLEX DRAWING PK-70873-0313
5. MATES WITH MICRO FIT (3.0) RECEPTACLE SERIES 43025
6. .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.
7. 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.
8. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF PRODUCT SPECIFICATION
PS-45499-002.



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

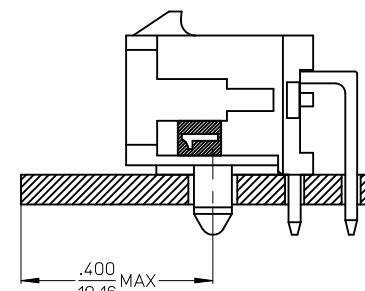


PCB LAYOUT:
6 CKT HEADER

PCB LAYOUT:
4 CKT HEADER

PCB LAYOUT:
2 CKT HEADER

	FINISH A	FINISH B	FINISH C
CKTS	MATERIAL NO:	MATERIAL NO:	MATERIAL NO:
02	43045-0200	43045-0201	43045-0202
04	43045-0400	43045-0401	43045-0402
06	43045-0600	43045-0601	43045-0602
08	43045-0800	43045-0801	43045-0802
10	43045-1000	43045-1001	43045-1002
12	43045-1200	43045-1201	43045-1202
14	43045-1400	43045-1401	43045-1402
16	43045-1600	43045-1601	43045-1602
18	43045-1800	43045-1801	43045-1802
20	43045-2000	43045-2001	43045-2002
22	43045-2200	43045-2201	43045-2202
24	43045-2400	43045-2401	43045-2402



LOCATION DETAILS
SEE NOTE #7

CORRECTED .482/12.24 EC NO: UCP2010-4324 CHW:N:TRENS JYK:DSSOUSEK APPR:FSM TH			2009/11/25 2009/11/25 2009/11/30	QUALITY SYMBOLS DESCRIPTION REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE ---	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
			mm INCH		DRAWN BY DATE SAMIEC 2000/03/15		TITLE MICRO-FIT (3.0) DUAL ROW RIGHT ANGLE THRU HOLE HEADER ASSY							
			4 PLACES ± --- ± ---		CHECKED BY DATE MUELLER 2000/03/15		MOLEX MOLEX INCORPORATED							
			3 PLACES ± --- ± .010		APPROVED BY DATE EDGLEY 2000/03/15									
			2 PLACES ± 0.25 ± .014		MATERIAL NO.							DOCUMENT NO.		SHEET NO.
			1 PLACE ± 0.36 ± ---		ANGULAR ± 1/2°		SEE CHART		SD-43045-001		1 OF 1			
F2					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		

CKTS	A (SEE NOTE 6)	B	C
02	<u>.262</u> 6.65	NA	NA
04	<u>.380</u> 9.65	<u>.118</u> 3.00	NA
06	<u>.498</u> 12.65	<u>.236</u> 6.00	NA
08	<u>.616</u> 15.65	<u>.354</u> 9.00	<u>.185</u> 4.70
10	<u>.734</u> 18.65	<u>.472</u> 12.00	<u>.303</u> 7.70
12	<u>.852</u> 21.65	<u>.591</u> 15.00	<u>.421</u> 10.70
14	<u>.970</u> 24.65	<u>.709</u> 18.00	<u>.539</u> 13.70
16	<u>1.088</u> 27.65	<u>.827</u> 21.00	<u>.657</u> 16.70
18	<u>1.206</u> 30.65	<u>.945</u> 24.00	<u>.776</u> 19.70
20	<u>1.325</u> 33.65	<u>1.063</u> 27.00	<u>.894</u> 22.70
22	<u>1.443</u> 36.65	<u>1.181</u> 30.00	<u>1.012</u> 25.70
24	<u>1.561</u> 39.65	<u>1.299</u> 33.00	<u>1.130</u> 28.70