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Part Number:

0452800452

Status:

Active

Overview:

microfit_30

Description:

33.00mm (.118") Pitch Micro-Fit 3.0 BMI CPI™ Compliant Pin Header, Blind Mate Interface, Dual Row, Vertical, 4 Circuits, PA Polyamide Nylon 4/6, UL 94V-0, 0.38µm (15µ") Gold (Au) Selective Contact Plating, Tin (Sn) Tail Plating

Documents:

3D Model

Drawing (PDF)

Product Specification PS-44300-001 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification	
CSA	LR19980
TUV	R72081037
UL	E29179
General	
Product Family	PCB Headers
Series	45280
Application	Board-to-Board, Wire-to-Board
Application Tooling Part Link	622008400
Overview	microfit_30
Product Literature Order No	USA-106
Product Name	Micro-Fit 3.0 BMI CPI™

Physical	
Breakaway	No
Circuits (Loaded)	4
Circuits (maximum)	4
Color - Resin	Black
Durability (mating cycles max)	30
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	Yes
Lock to Mating Part	None
Material - Metal	High Performance Alloy (HPA)
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Vertical
PC Tail Length (in)	0.189 In
PC Tail Length (mm)	4.80 mm
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
Plating min: Mating (µm)	0.375
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.5
Polarized to Mating Part	Yes
Polarized to PCB	Yes
Shrouded	Fully
Stackable	No

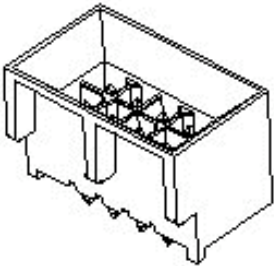


image - Reference only

Series

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Contains SVHC: No

Halogen-Free

Status

Not 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

45280Series

Mates With

[44133-0400](#) Panel Mount Receptacle,

[44769-0402](#) Vertical Receptacle Header,

[44764-0402](#) Right Angle Receptacle Header

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™	0622008400
Compliant Pin	
Insertion Flat Rock	
Tool	

Surface Mount Compatible (SMC)	No
Temperature Range - Operating	-40°C to +105°C
Termination Interface: Style	Through Hole - Compliant Pin

Electrical

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

Material Info

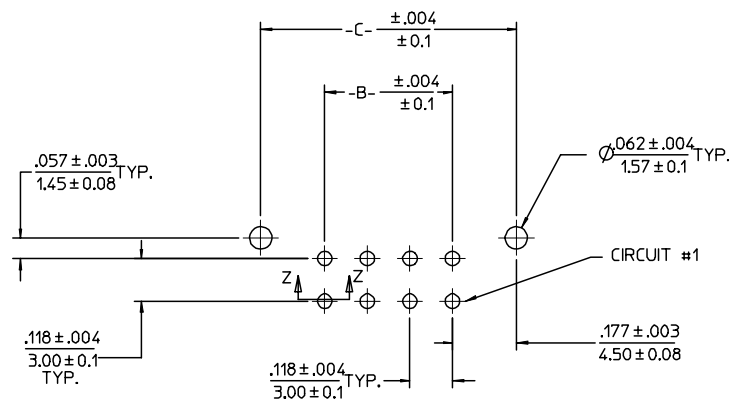
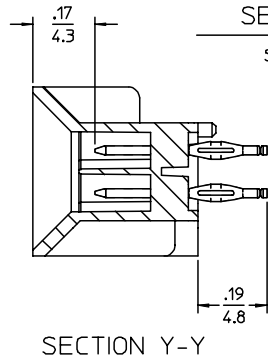
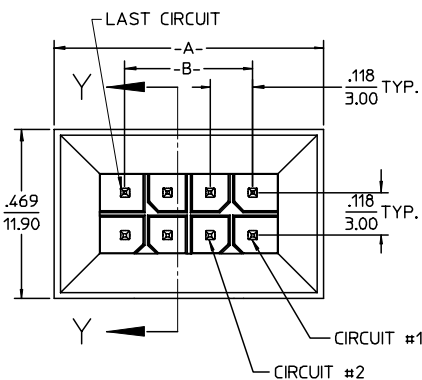
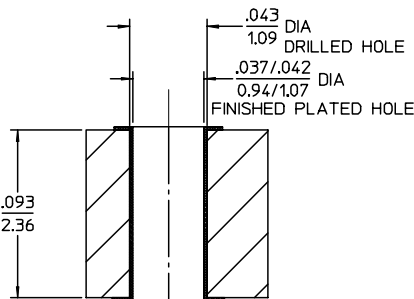
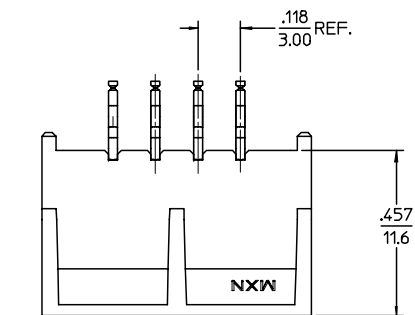
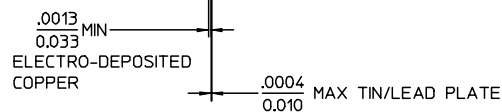
Reference - Drawing Numbers

Packaging Specification	PK-45280-002
Product Specification	PS-44300-001, RPS-44300-001
Sales Drawing	SD-45280-002
Test Summary	TS-45280-001

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MATERIAL NUMBER	CIRCUIT SIZE	PLATING OPTION
452800452	04	B
452800453	04	A
452800652	06	B
452800653	06	A
452800852	08	B
452800853	08	A
452801052	10	B
452801053	10	A
452801252	12	B
452801253	12	A
452801452	14	B
452801453	14	A
452801652	16	B
452801653	16	A
452801852	18	B
452801853	18	A
452802052	20	B
452802053	20	A
452802252	22	B
452802253	22	A
452802452	24	B
452802453	24	A



RECOMMENDED PCB LAYOUT
(COMPONENT SIDE)
RECOMMENDED PCB THICKNESS .093/2.36 MIN.

- NOTES:

1. MATERIALS:
HOUSING: GLASS FILLED NYLON, UL94V-0, COLOR: BLACK,
TERMINALS: COPPER ALLOY.
2. FINISH:
A= .000030/(0.00075) MIN. GOLD IN SELECTIVE AREA AND .00010/(0.0025) MIN
TIN ON PCB TAILS BOTH OVER .000050/(0.0013) NICKEL OVERALL.
B= .000015/(0.00038) MIN. GOLD IN SELECTIVE AREA AND .00010/(0.0025) MIN
TIN ON PCB TAILS BOTH OVER .000050/(0.0013) NICKEL OVERALL.
3. PRODUCT SPECIFICATION: PS-44300-001
4. PACKAGING SPECIFICATION: PK-45280-002.
5. THIS ASSEMBLY MATES WITH MOLEX BMI PANEL MOUNT RECEPTACLE
(SEE DRAWING SD-44133-001) WITH FEMALE CRIMP TERMINAL
(SEE DRAWING SD-43030-****) AND BMI RECEPTACLE HEADERS
(SEE DRAWING SD-44764-001 OR SD-44769-001).
6. THIS HEADER REQUIRES A MOLEX INSERTION TOOL (62200-8400) TO PROPERLY
INSTALL IT TO THE PCB.

UPDATE PK SPEC EC NO: UCP2006-2769	DRAWN/PROJ DER 2006/07/21 CHKD:SSOUSEK 2006/07/21 APPR:FSM TH 2006/07/31	DESCRIPTION	QUALITY SYMBOLS ▼=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE IN/MM	SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	
				mm	INCH	DRAWN BY RHOLTS	DATE 2004/07/20	TITLE MICRO-FIT (3.0) DUAL ROW VERTICAL BMI CPI HEADER-ASSY, LEAD-FREE	
				4 PLACES ± --- ± ---	CHECKED BY LSCHMIDT	DATE 2004/07/20	MOLEX MOLEX INCORPORATED		
				3 PLACES ± --- ± .010	APPROVED BY FSMITH	DATE 2004/07/20	MATERIAL NO. SEE CHART		
				2 PLACES ± 0.25 ± .015				DOCUMENT NO. SD-45280-002	SHEET NO. 1 OF 1
				1 PLACE ± 0.38 ± ---					
				ANGULAR ± 1/2°					
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SIZE C	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			