

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0444320403

Status:

Active

Overview:

microfit_30

Description:

3.00mm (.118") Pitch Micro-Fit 3.0 BMI™ Header, Surface Mount Compatible, Dual Row, Vertical, with PCB Polarizing Peg, 4 Circuits, 0.76µm (30µ") Gold (Au) Selective Plating

Documents:

3D Model

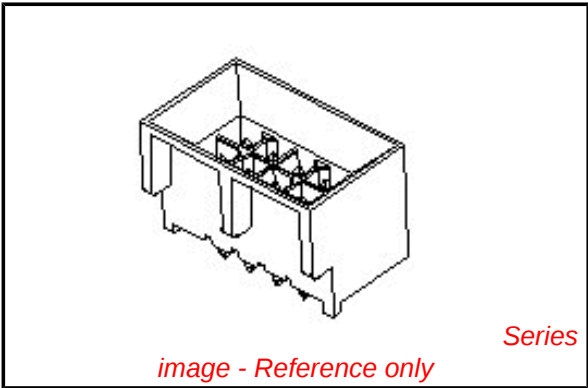
Drawing (PDF)

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	44432
Application	Board-to-Board, Wire-to-Board
Comments	High Temperature Square Pin Offset Through Hole Mounting Solder Type
Overview	microfit_30
Product Literature Order No	USA-106
Product Name	Micro-Fit 3.0 BMI™

Physical	
Breakaway	No
Circuits (Loaded)	4
Circuits (maximum)	4
Color - Resin	Black
Durability (mating cycles max)	30
Flammability	94V-0
Glow-Wire Compliant	No
Material - Metal	Brass
Material - Plating Mating	Gold
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Vertical
PC Tail Length (in)	0.130 In
PC Tail Length (mm)	3.30 mm
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)	30
Plating min: Mating (µm)	0.75
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.5
Polarized to PCB	Yes
Shrouded	Fully
Stackable	No



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

44432Series

Mates With

44133 , 44764 , 44769

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)	5
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	260

Material Info

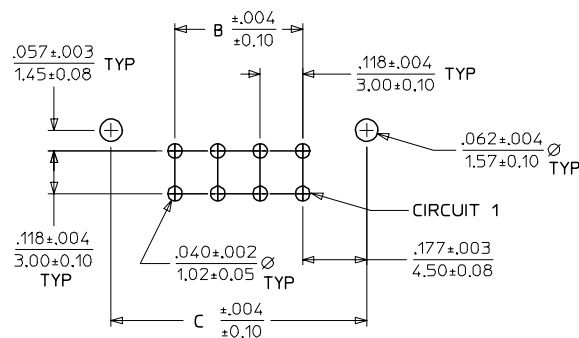
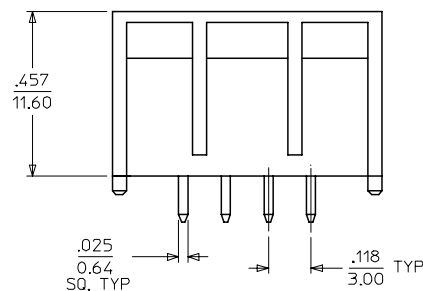
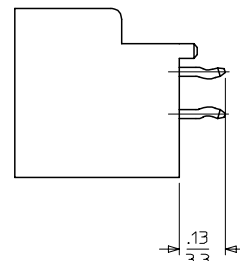
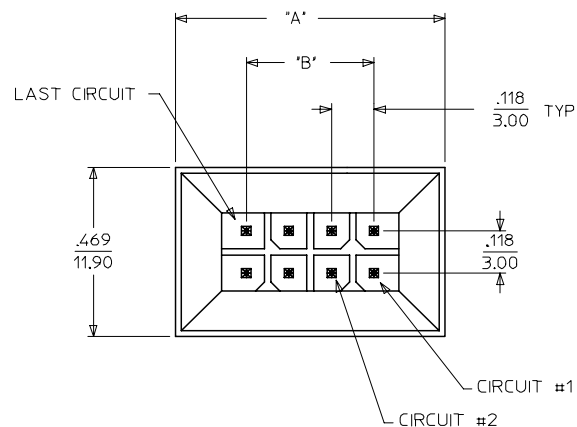
Reference - Drawing Numbers

Packaging Specification	PK-44432-001
Product Specification	PS-44300-001, RPS-44300-001
Sales Drawing	SD-44432-001

This document was generated on 05/24/2010

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13 12 11 10 9 8 7 6 5 4 3 2 44432



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

CIRCUIT SIZE	"A"	"B"	C
04	.512 13.00	.118 3.00	.472 12.00
06	.630 16.00	.236 6.00	.590 15.00
08	.748 19.00	.354 9.00	.709 18.00
10	.866 22.00	.472 12.00	.827 21.00
12	.984 25.00	.590 15.00	.945 24.00
14	1.102 27.99	.709 18.00	1.063 27.00
16	1.220 31.00	.827 21.00	1.181 30.00
18	1.338 34.00	.945 24.00	1.299 33.00
20	1.457 37.00	1.063 27.00	1.417 36.00
22	1.575 40.00	1.181 30.00	1.535 39.00
24	1.693 43.00	1.299 33.00	1.653 42.00

NOTES :

1. MATERIALS -

HOUSING : NYLON , GLASS-FILLED, UL94V-0 COLOR - BLACK
TERMINAL : BRASS ALLOY

2. FINISH:

A = .000200/(0.00508) MIN. TIN OVER .000050/(0.00127) MIN. NICKEL.

B = .000015/(0.00038) MIN. SELECT GOLD IN CONTACT AREA,
.000100/(0.00254) MIN. SELECT TIN ON SOLDER TAILS,
BOTH OVER .000050/(0.00127) MIN. NICKEL.

C = .000030/(0.00076) MIN. SELECT GOLD IN CONTACT AREA,
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* 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-44300-001

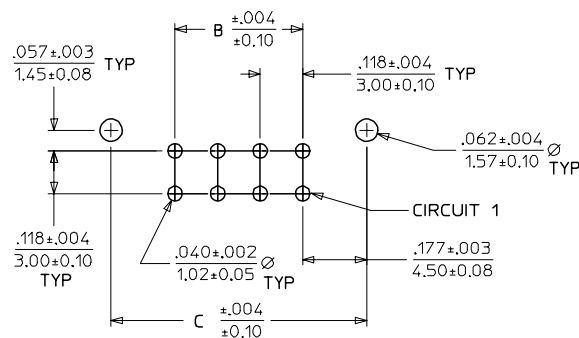
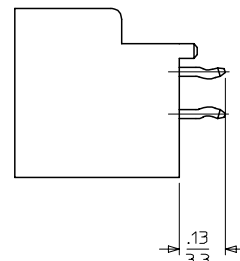
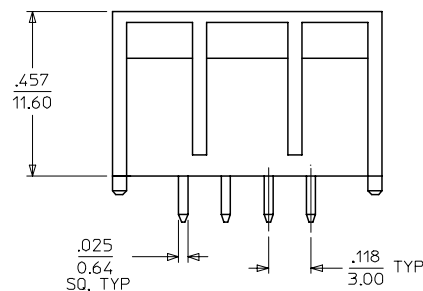
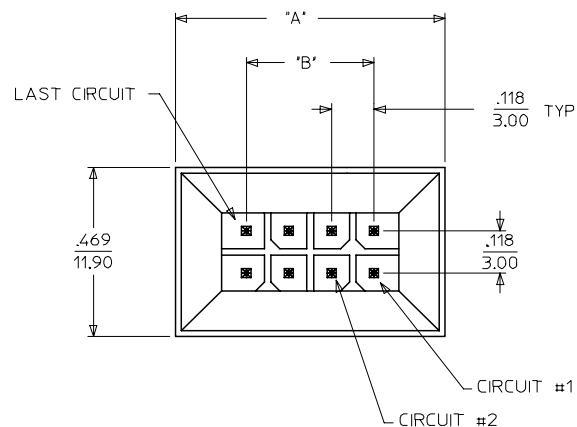
4. PACKAGING SPECIFICATION : PK-44432-001

5. THIS ASSEMBLY MATES WITH MOLEX BMI PANEL MOUNT RECEPTACLE
(SEE DRAWING SD-44133-001) & FEMALE CRIMP TERMINAL (SEE DRAWING SD-43030-****)

6. SEE SHEET 2 FOR PART NUMBER CHART.

LEAD FREE EC NO: UCP2004-1228 DRAWN: JERNY 2004/03/12 CHKD: 2004/03/31 APPR: F. SMITH 2004/04/05	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)			SCALE 4:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	REVISE ON CAD ONLY		
				mm	INCH	DIMENSION STYLE			TITLE		
						IN/MM			MICRO FIT (3.0)		
			4 PLACES	± ---	± ---	DRAWN BY	DATE		DUAL ROW VERTICAL		
			3 PLACES	± ---	± .010	MUELLER	1999/11/29		BMI HEADER ASS'Y		
			2 PLACES	± 0.25	± .015	CHECKED BY	DATE	 MOLEX INCORPORATED			
			1 PLACE	± 0.38	± ---	MUELLER	1999/11/29				
			ANGULAR ±1/2°								
			DRAFT WHERE APPLICABLE				APPROVED BY	DATE	MATERIAL NO.	DOCUMENT NO.	SHEET NO.
							EDGLEY	1999/11/30	SEE CHART	SD-44432-001	1 OF 2
			MUST REMAIN WITHIN DIMENSIONS				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

13 12 11 10 9 8 7 6 5 4 3 2 44432



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LEAD FREE EC NO: UCP2004-1228 EC NO: JERNY 2004/03/12 CHKO: 2004/03/31 APPR: F. SMITH 2004/04/05	QUALITY SYMBOLS ▽ = 0 ▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± .010 2 PLACES ± 0.25 ± .015 1 PLACE ± 0.38 ± --- ANGULAR ± 1/2° DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	SCALE 4:1 DESIGN UNITS METRIC DIMENSION STYLE IN/MM DRAWN BY MUELLER DATE 1999/11/29 CHECKED BY MUELLER DATE 1999/11/29 APPROVED BY EDGLEY DATE 1999/11/30 THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	THIRD ANGLE PROJECTION REVISE ON CAD ONLY MICRO FIT (3.0) DUAL ROW VERTICAL BMI HEADER ASS'Y MOLEX MOLEX INCORPORATED SEE CHART SD-44432-001 SHEET NO. 1 OF 2

