

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0444320402](#)
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, 0.38µm (15µ") Gold (Au) Selective Plating

Documents:

3D Model	Product Specification PS-44300-001 (PDF)
Drawing (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)	15.2
Plating min: Mating (µm)	0.38
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.5
Polarized to PCB	Yes
Shrouded	Fully
Stackable	No

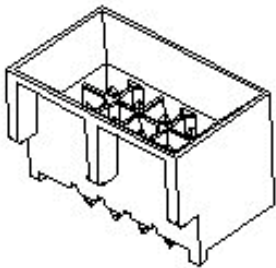


image - Reference only

Series

EU RoHS

**ELV and RoHS
Compliant**
**REACH SVHC
Contains SVHC: No**
**Halogen-Free
Status**

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

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

13

12

11

10

9

8

7

6

5

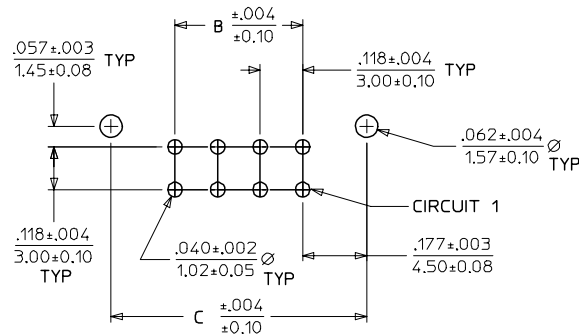
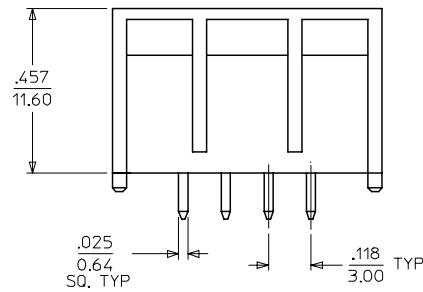
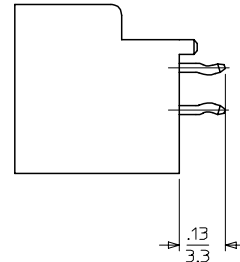
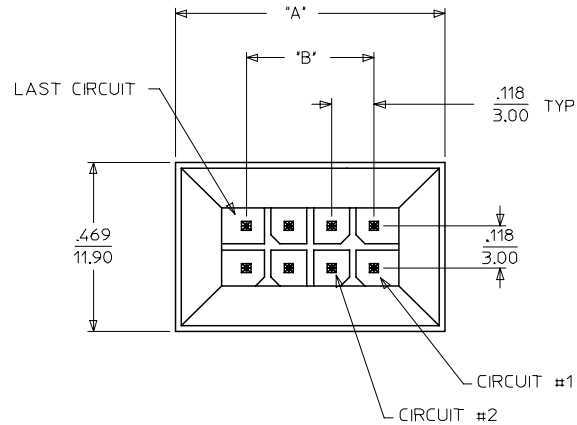
4

3

2

44432

CIRCUIT SIZE	"A"	"B"	C
04	$\frac{.512}{13.00}$	$\frac{.118}{3.00}$	$\frac{.472}{12.00}$
06	$\frac{.630}{16.00}$	$\frac{.236}{6.00}$	$\frac{.590}{15.00}$
08	$\frac{.748}{19.00}$	$\frac{.354}{9.00}$	$\frac{.709}{18.00}$
10	$\frac{.866}{22.00}$	$\frac{.472}{12.00}$	$\frac{.827}{21.00}$
12	$\frac{.984}{25.00}$	$\frac{.590}{15.00}$	$\frac{.945}{24.00}$
14	$\frac{1.102}{28.00}$	$\frac{.709}{18.00}$	$\frac{1.063}{27.00}$
16	$\frac{1.220}{31.00}$	$\frac{.827}{21.00}$	$\frac{1.181}{30.00}$
18	$\frac{1.338}{34.00}$	$\frac{.945}{24.00}$	$\frac{1.299}{33.00}$
20	$\frac{1.457}{37.00}$	$\frac{1.063}{27.00}$	$\frac{1.417}{36.00}$
22	$\frac{1.575}{40.00}$	$\frac{1.181}{30.00}$	$\frac{1.535}{39.00}$
24	$\frac{1.693}{43.00}$	$\frac{1.299}{33.00}$	$\frac{1.653}{42.00}$



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

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,
.000100/(0.00254) MIN. SELECT TIN ON SOLDER TAILS,
BOTH OVER .000050/(0.00127) MIN. NICKEL.

* 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	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	SCALE		DESIGN UNITS			THIRD ANGLE PROJECTION	REVISE ON CAD ONLY
			4:1		METRIC				
			DIMENSION STYLE		TITLE				
			IN/MM						
			DRAWN BY			DATE			
MUELLER		1999/11/29							
CHECKED BY		DATE							
MUELLER		1999/11/29			MOLEX INCORPORATED				
APPROVED BY		DATE	MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
EDGLEY		1999/11/30	SEE CHART		SD-44432-001		1 OF 2		
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									

D	REV	DESCRIPTION	▽ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)	SCALE		DESIGN UNITS			THIRD ANGLE PROJECTION	REVISE ON CAD ONLY
					4:1		METRIC				
					DIMENSION STYLE		TITLE				
					IN/MM						
					DRAWN BY			DATE			
MUELLER		1999/11/29									
CHECKED BY		DATE			MOLEX INCORPORATED						
APPROVED BY		DATE	MATERIAL NO.		DOCUMENT NO.		SHEET NO.				
EDGLEY		1999/11/30	SEE CHART		SD-44432-001		1 OF 2				
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											

DRAFT WHERE APPLICABLE									
MUST REMAIN WITHIN DIMENSIONS									

