

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0444321402](#)
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, 14 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

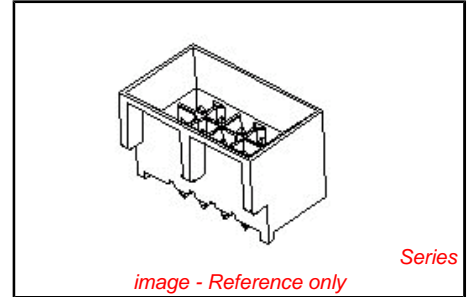
CSA LR19980
TUV R72081037
UL E29179

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) 14
Circuits (maximum) 14
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



EU RoHS
ELV and RoHS
Compliant
REACH SVHC
Contains SVHC: No
Halogen-Free
Status
Not Halogen-Free



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

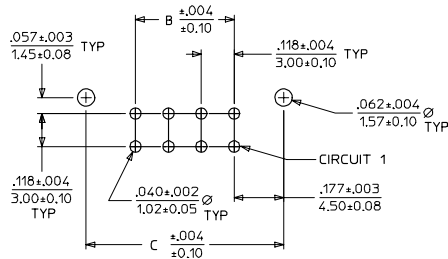
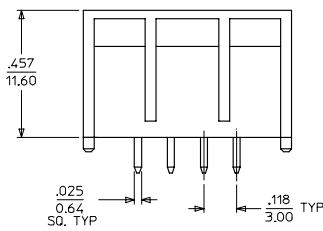
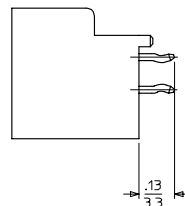
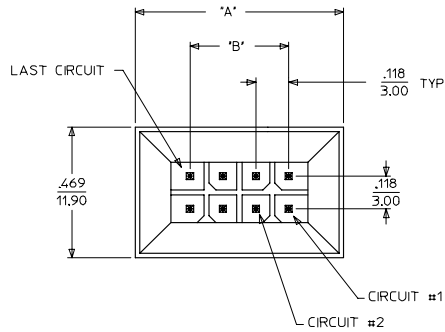
Material Info**Reference - Drawing Numbers**

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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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	$\frac{1.693}{43.00}$	$\frac{1.299}{33.00}$	$\frac{1.653}{42.00}$



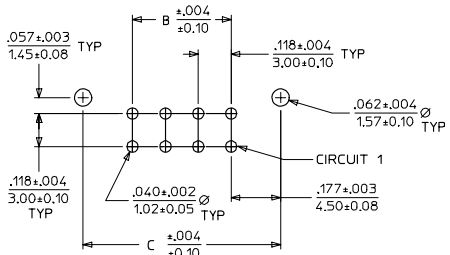
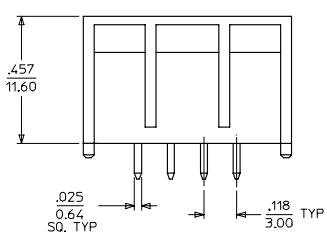
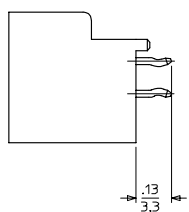
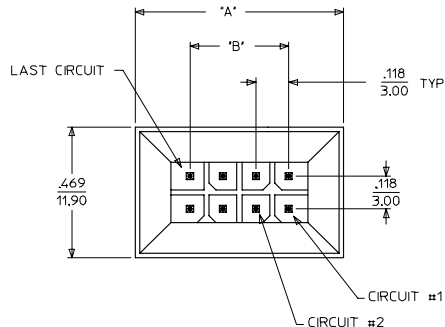
PCB LAYOUT: COMPONENT SIDE
RECOMMENDED PCB THICKNESS .062/157

NOTES :

- MATERIALS -
HOUSING : NYLON , GLASS-FILLED, UL94V-0 COLOR - BLACK
TERMINAL : BRASS ALLOY
- 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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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.
- PRODUCT SPECIFICATION : PS-44300-001
- PACKAGING SPECIFICATION : PK-44432-001
- THIS ASSEMBLY MATES WITH MOLEX BMI PANEL MOUNT RECEPTACLE
(SEE DRAWING SD-44133-001 & FEMALE CRIMP TERMINAL (SEE DRAWING SD-43030-****))
- SEE SHEET 2 FOR PART NUMBER CHART.

LEAD FREE EC NO. UCP2004-1728 DRAWN: JERRY 2004/03/12 CHKD: 2004/03/31 APPR: F SMITH 2004/04/05	QUALITY SYMBOLS ▽ 0 ▽ 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	REVISE ON CAD ONLY														
		<table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>± .010</td> <td>± .0004</td> </tr> <tr> <td>3 PLACES</td> <td>± .025</td> <td>± .0010</td> </tr> <tr> <td>2 PLACES</td> <td>± .050</td> <td>± .0020</td> </tr> <tr> <td>1 PLACE</td> <td>± .127</td> <td>± .0050</td> </tr> </table>			mm	INCH	4 PLACES	± .010	± .0004	3 PLACES	± .025	± .0010	2 PLACES	± .050	± .0020	1 PLACE	± .127	± .0050	DIMENSION STYLE IN/MM	DRAWN BY MUELLER DATE 1999/11/29	CHECKED BY MUELLER DATE 1999/11/29
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REV	DESCRIPTION	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APPROVED BY EDGLEY DATE 1999/11/30	MATERIAL NO. SEE CHART	DOCUMENT NO. SD-44432-001	SHEET NO. 1 OF 2														

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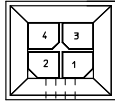
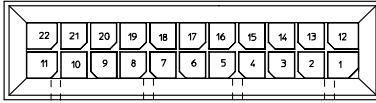
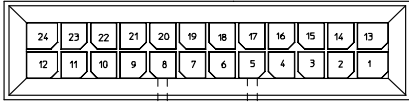
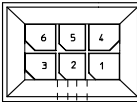
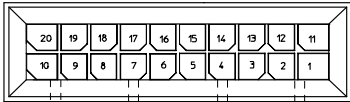
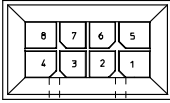
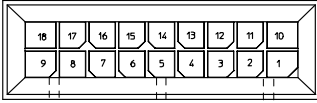
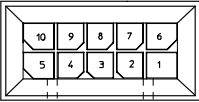
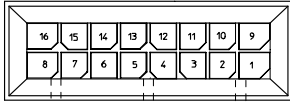
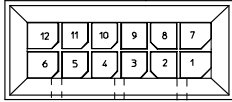
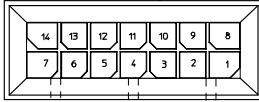
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THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																			

	13	12	11	10	9	8	7	6	5	4	3	2	44432
	MATERIAL NUMBER	NUMBER OF POSITIONS	PLATING OPTION										
J	44432-0401	04	A										
	44432-0402	04	B										
	44432-0403	04	C										
I	44432-0601	06	A										
	44432-0602	06	B										
	44432-0603	06	C										
	44432-0801	08	A										
	44432-0802	08	B										
	44432-0803	08	C										
H	44432-1001	10	A										
	44432-1002	10	B										
	44432-1003	10	C										
G	44432-1201	12	A										
	44432-1202	12	B										
	44432-1203	12	C										
	44432-1401	14	A										
	44432-1402	14	B										
	44432-1403	14	C										
F	44432-1601	16	A										
	44432-1602	16	B										
	44432-1603	16	C										
	44432-1801	18	A										
	44432-1802	18	B										
	44432-1803	18	C										
E	44432-2001	20	A										
	44432-2002	20	B										
	44432-2003	20	C										
D	44432-2201	22	A										
	44432-2202	22	B										
	44432-2203	22	C										
	44432-2401	24	A										
	44432-2402	24	B										
	44432-2403	24	C										
C													
B													
A													
	12	11	10	9	8	7	6	5	4	3	2	1	

 4 CIRCUIT	 22 CIRCUIT	 24 CIRCUIT
 6 CIRCUIT	 20 CIRCUIT	
 8 CIRCUIT	 18 CIRCUIT	
 10 CIRCUIT	 16 CIRCUIT	
 12 CIRCUIT	 14 CIRCUIT	

POLARIZATION LAYOUT 4-24 CIRCUITS	
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REDRAWN EC NO. UCP2004-1228 DRAWN: JERRY 2004/03/12 CHKD: 2004/03/31 APPR: F. SMITH 2004/04/05	QUALITY SYMBOLS ◻ 0 ◻ 0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>± .---</td> <td>± .---</td> </tr> <tr> <td>3 PLACES</td> <td>± .---</td> <td>± .010</td> </tr> <tr> <td>2 PLACES</td> <td>± 0.25</td> <td>± .015</td> </tr> <tr> <td>1 PLACE</td> <td>± 0.36</td> <td>± .---</td> </tr> </table>		mm	INCH	4 PLACES	± .---	± .---	3 PLACES	± .---	± .010	2 PLACES	± 0.25	± .015	1 PLACE	± 0.36	± .---	SCALE 4:1 DESIGN UNITS METRIC DIMENSION STYLE IN/MM	THIRD ANGLE PROJECTION REVISE ON CAD ONLY
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			MOLEX INCORPORATED THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																