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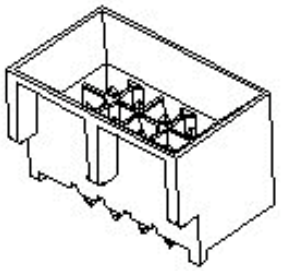
This document was generated on 05/24/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0444321803
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, 18 Circuits, 0.76µm (30µ") Gold (Au) Selective Plating

Documents:

3D Model
Drawing (PDF)
Product Specification PS-44300-001 (PDF)
RoHS Certificate of Compliance (PDF)



Series image - Reference only

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)	18
Circuits (maximum)	18
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 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
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

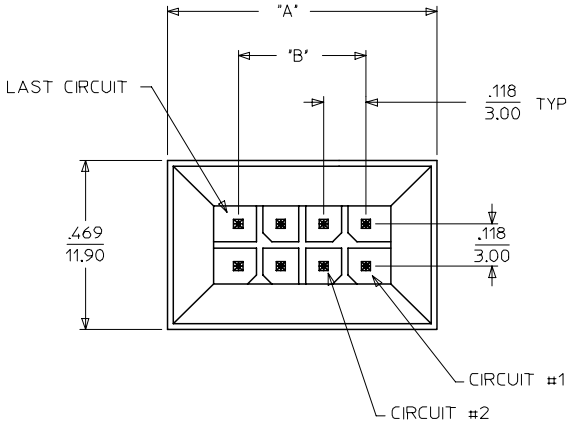
Packaging Specification	PK-44432-001
Product Specification	PS-44300-001, RPS-44300-001
Sales Drawing	SD-44432-001

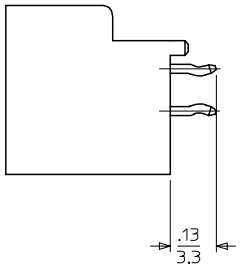
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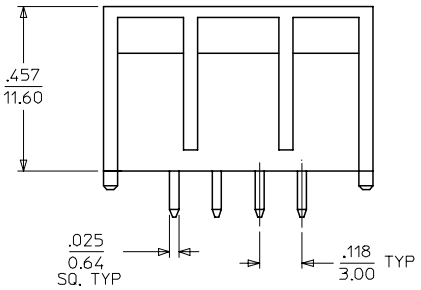
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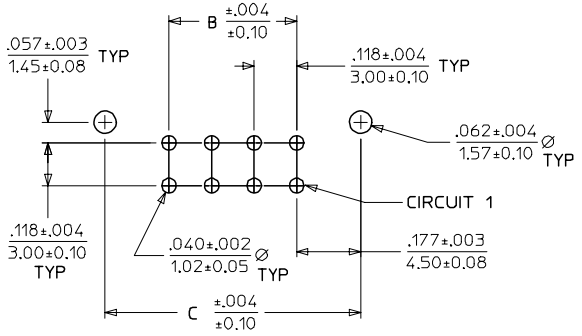
44432

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	28.00 / 1.102	18.00 / .709	27.00 / 1.063
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









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,
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6. SEE SHEET 2 FOR PART NUMBER CHART.

LEAD FREE
EC NO: UCP2004-1228 2004/03/12
DRWN: JCERNY 2004/03/31
CHK'D:
APPR: FSMITH 2004/04/05
DESCRIPTION
REV D

QUALITY SYMBOLS
▼ = 0
▽ (C) = 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 | THIRD ANGLE PROJECTION | REVISE ON CAD ONLY
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

TITLE
MICRO FIT (3.0)
DUAL ROW VERTICAL
BMI HEADER ASS'Y

MOLEX INCORPORATED

MATERIAL NO. SEE CHART | DOCUMENT NO. SD-44432-001 | SHEET NO. 1 OF 2

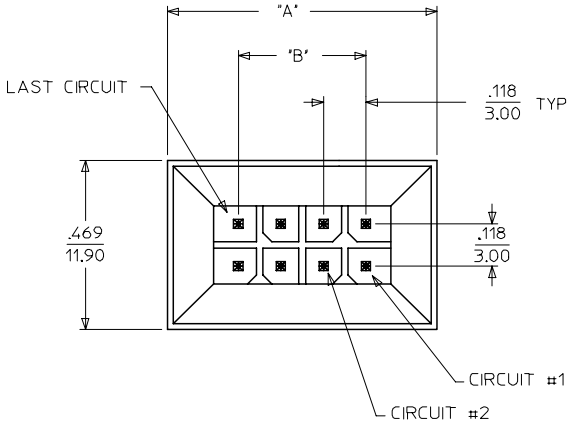
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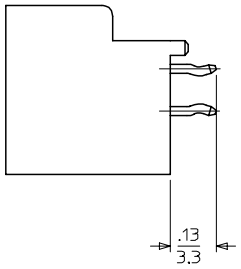
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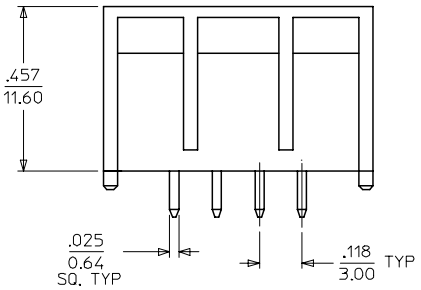
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Rev. C 2002/05/05

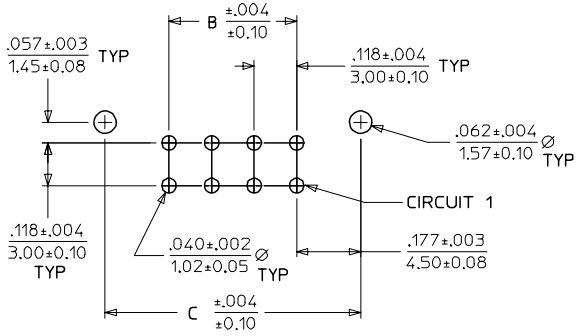
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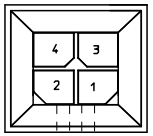
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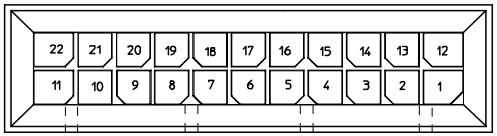
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Rev. C 2002/05/05

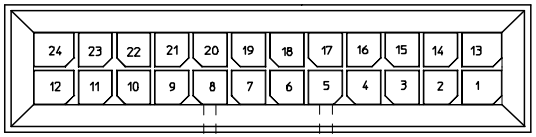
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44432-0402	04	B
44432-0403	04	C
44432-0601	06	A
44432-0602	06	B
44432-0603	06	C
44432-0801	08	A
44432-0802	08	B
44432-0803	08	C
44432-1001	10	A
44432-1002	10	B
44432-1003	10	C
44432-1201	12	A
44432-1202	12	B
44432-1203	12	C
44432-1401	14	A
44432-1402	14	B
44432-1403	14	C
44432-1601	16	A
44432-1602	16	B
44432-1603	16	C
44432-1801	18	A
44432-1802	18	B
44432-1803	18	C
44432-2001	20	A
44432-2002	20	B
44432-2003	20	C
44432-2201	22	A
44432-2202	22	B
44432-2203	22	C
44432-2401	24	A
44432-2402	24	B
44432-2403	24	C



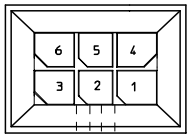
4 CIRCUIT



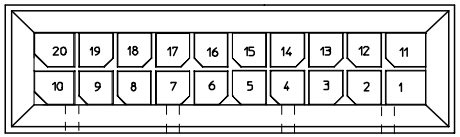
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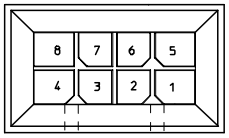
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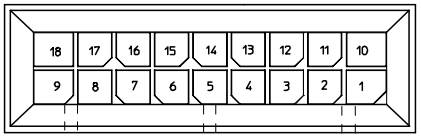
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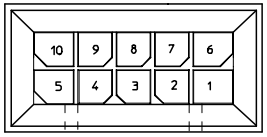
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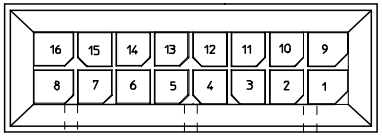
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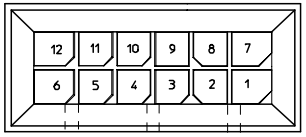
18 CIRCUIT



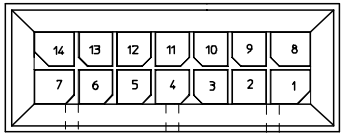
10 CIRCUIT



16 CIRCUIT



12 CIRCUIT



14 CIRCUIT

POLARIZATION LAYOUT
4-24 CIRCUITS

REDRAWN
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SHEET NO. 2 OF 2

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