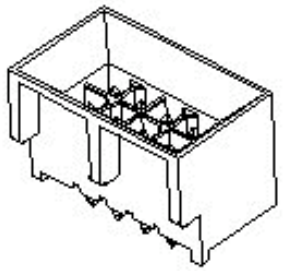
This document was generated on 06/08/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0444320601
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, 6 Circuits, Tin (Sn) Plating



Series image - Reference only

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
MolexKits	Yes
Overview	microfit_30
Product Literature Order No	USA-106
Product Name	Micro-Fit 3.0 BMI™

Physical

Breakaway	No
Circuits (Loaded)	6
Circuits (maximum)	6
Color - Resin	Black
Durability (mating cycles max)	30
Flammability	94V-0
Glow-Wire Compliant	No
Material - Metal	Brass
Material - Plating Mating	Tin
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)	200
Plating min: Mating (µm)	5
Plating min: Termination (µin)	200
Plating min: Termination (µm)	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

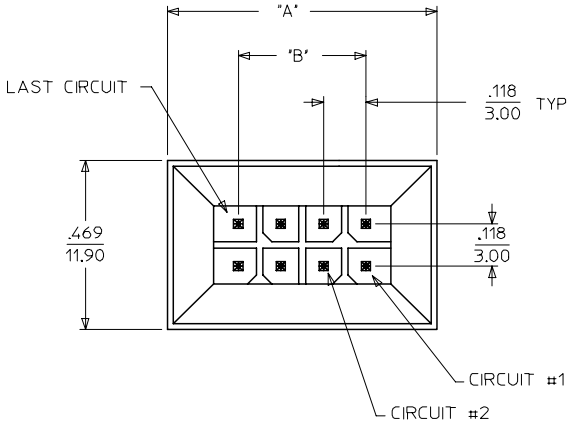
Packaging Specification	PK-44432-001
Product Specification	PS-44300-001, RPS-44300-001
Sales Drawing	SD-44432-001

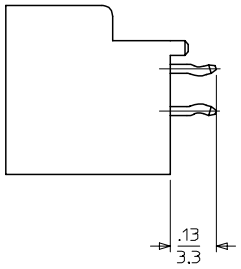
This document was generated on 06/08/2010

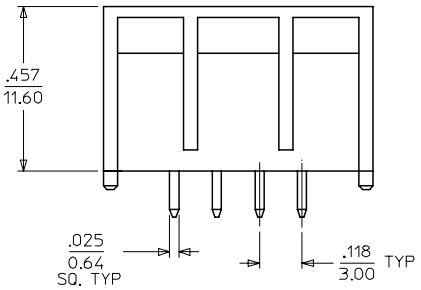
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

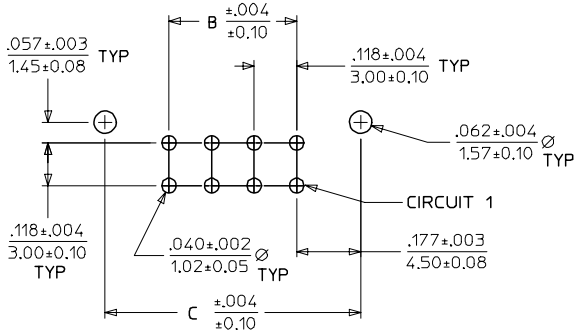
44432

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,
   .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 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

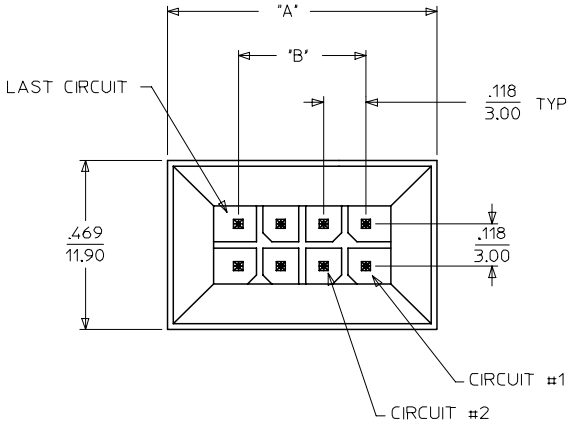
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

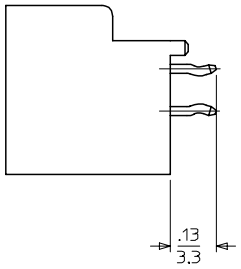
C

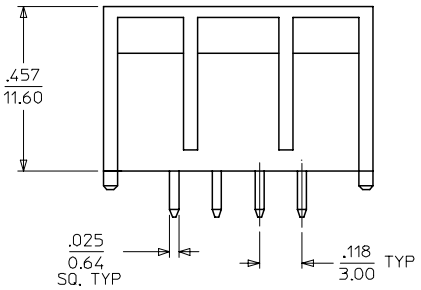
tb_frame_C_P_ME_T
Rev. C 2002/05/05

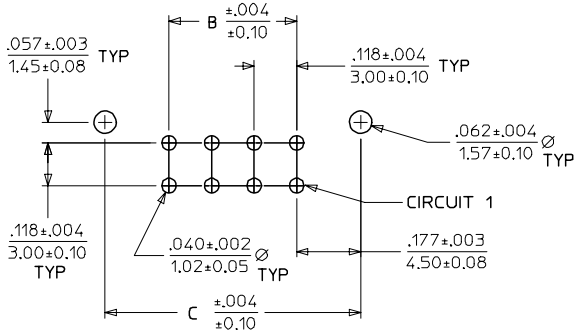
44432

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,
   .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 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

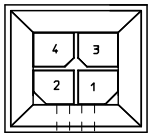
MATERIAL NO. SEE CHART | DOCUMENT NO. SD-44432-001 | SHEET NO. 1 OF 2

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

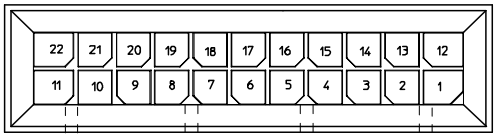
C

tb_frame_C_P_ME_T
Rev. C 2002/05/05

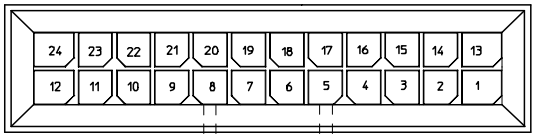
MATERIAL NUMBER	NUMBER OF POSITIONS	PLATING OPTION
44432-0401	04	A
44432-0402	04	B
44432-0403	04	C
44432-0601	06	A
44432-0602	06	B
44432-0603	06	C
44432-0801	08	A
44432-0802	08	B
44432-0803	08	C
44432-1001	10	A
44432-1002	10	B
44432-1003	10	C
44432-1201	12	A
44432-1202	12	B
44432-1203	12	C
44432-1401	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



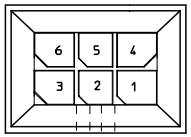
4 CIRCUIT



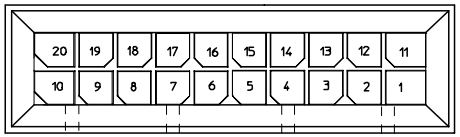
22 CIRCUIT



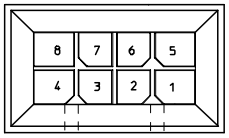
24 CIRCUIT



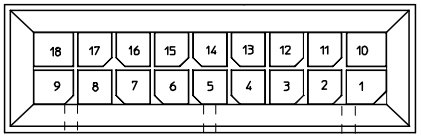
6 CIRCUIT



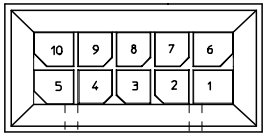
20 CIRCUIT



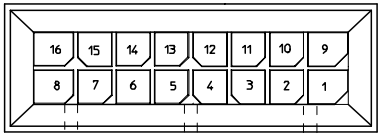
8 CIRCUIT



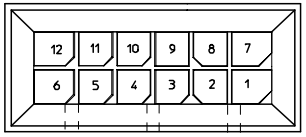
18 CIRCUIT



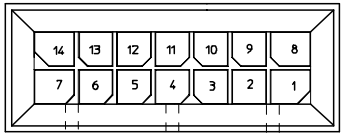
10 CIRCUIT



16 CIRCUIT



12 CIRCUIT



14 CIRCUIT

POLARIZATION LAYOUT
4-24 CIRCUITS

REDRAWN
EC NO: UCP2004-1228 2004/03/12
DRWN: JCERNY 2004/03/31
CHKD:
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	± 0.36	± ---
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 MOLEX INCORPORATED

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

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