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Part Number: [0444280401](#)
Status: **Active**
Overview: [microfit_30](#)
Description: 3.00mm (.118") Pitch Micro-Fit 3.0 BMI™ Header, Surface Mount Compatible, Dual Row, Right Angle, with Snap-in Plastic Peg PCB Lock, 4 Circuits, Tin (Sn) Plating

Documents:

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

Agency Certification

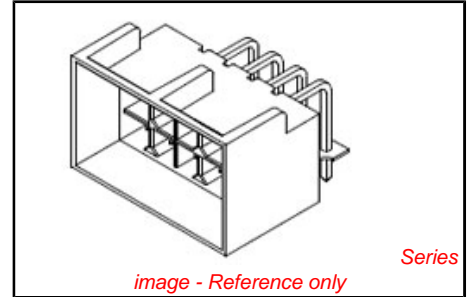
CSA	LR19980
TUV	R72081037
UL	E29179

General

Product Family	PCB Headers
Series	44428
Application	Board-to-Board, Wire-to-Board
Comments	High Temperature Square Pin Solder Type Polarized to Mating Part
MolexKits	Yes
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
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	Yes
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	High Temperature Thermoplastic
Number of Rows	2
Orientation	Right Angle
PC Tail Length (in)	0.138 In
PC Tail Length (mm)	3.50 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)	5.08
Plating min: Termination (µin)	200



<p>EU RoHS ELV and RoHS Compliant REACH SVHC Contains SVHC: No Halogen-Free Status Not Halogen-Free</p>	<p>China RoHS</p>
<p>Need more information on product environmental compliance?</p> <p>Email productcompliance@molex.com For a multiple part number RoHS Certificate of Compliance, click here</p> <p>Please visit the Contact Us section for any non-product compliance questions.</p>	

Search Parts in this Series
[44428Series](#)

Mates With
[44133](#) , [44764](#) , [44769](#)

Plating min: Termination (µm)	5.08
Polarized to PCB	Yes
Shrouded	Fully
Stackable	No
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

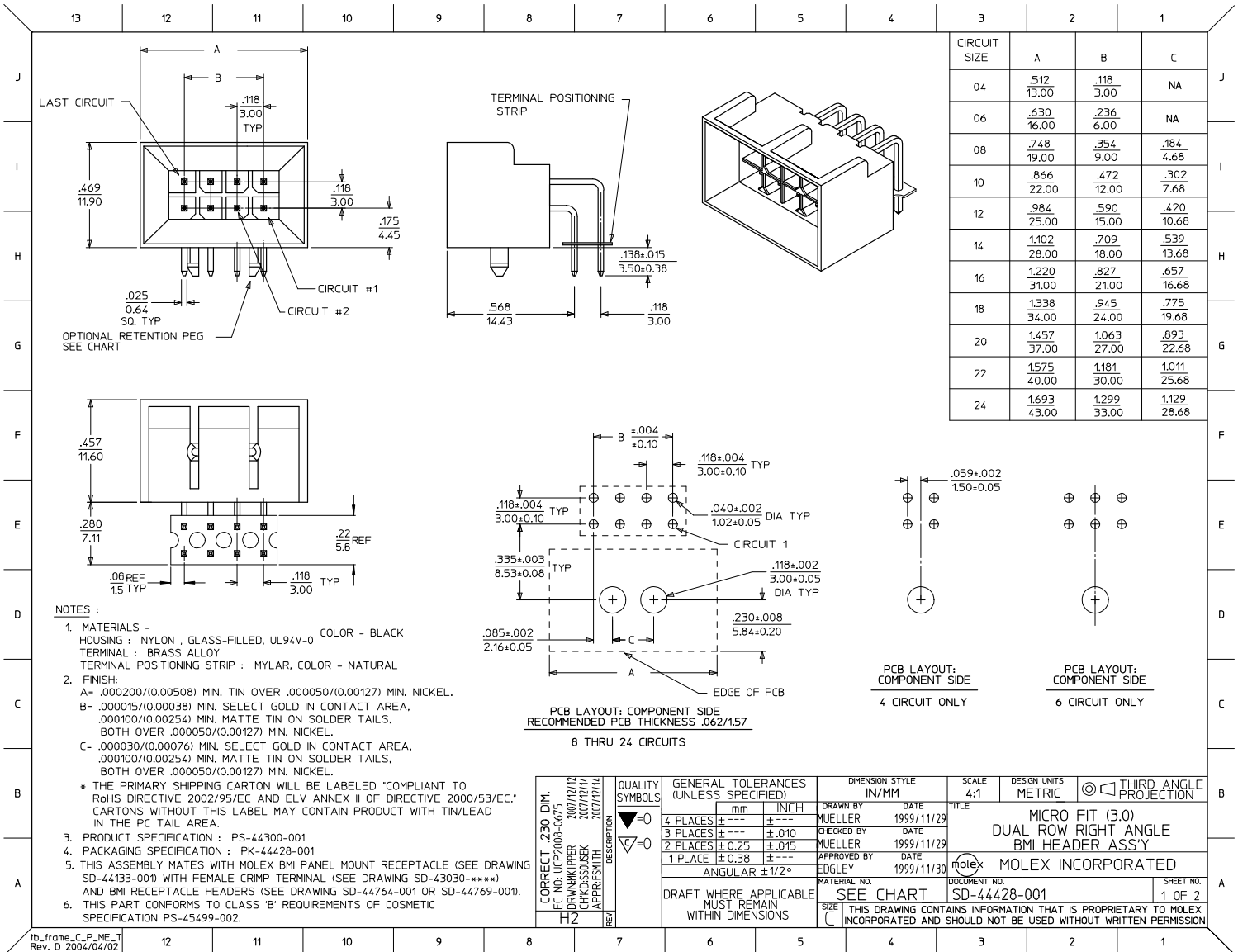
Material Info

Reference - Drawing Numbers

Packaging Specification	PK-44428-001
Product Specification	PS-44300-001, RPS-44300-001
Sales Drawing	SD-44428-001

This document was generated on 06/08/2010

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CIRCUIT SIZE	A	B	C
04	.512 13.00	.118 3.00	NA
06	.630 16.00	.236 6.00	NA
08	.748 19.00	.354 9.00	.184 4.68
10	.866 22.00	.472 12.00	.302 7.68
12	.984 25.00	.590 15.00	.420 10.68
14	1.102 28.00	.709 18.00	.539 13.68
16	1.220 31.00	.827 21.00	.657 16.68
18	1.338 34.00	.945 24.00	.775 19.68
20	1.457 37.00	1.063 27.00	.893 22.68
22	1.575 40.00	1.181 30.00	1.011 25.68
24	1.693 43.00	1.299 33.00	1.129 28.68

- NOTES :**
- MATERIALS - HOUSING : NYLON, GLASS-FILLED, UL94V-0 COLOR - BLACK
TERMINAL : BRASS ALLOY
TERMINAL POSITIONING STRIP : MYLAR, COLOR - NATURAL
 - FINISH:
A= .000200/(0.000508) MIN. TIN OVER .000050/(0.00127) MIN. NICKEL.
B= .000015/(0.00038) MIN. SELECT GOLD IN CONTACT AREA, .000100/(0.00254) MIN. MATTIE 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. MATTIE 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.
 - PRODUCT SPECIFICATION : PS-44300-001
 - PACKAGING SPECIFICATION : PK-44428-001
 - THIS ASSEMBLY MATES WITH MOLEX BMI PANEL MOUNT RECEPTACLE (SEE DRAWING SD-44133-001) WITH FEMALE CRIMP TERMINAL (SEE DRAWING SD-43030-****) AND BMI RECEPTACLE HEADERS (SEE DRAWING SD-44764-001 OR SD-44769-001).
 - THIS PART CONFORMS TO CLASS 'B' REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

CORRECT .230 DIM.		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
EC NO.	DATE	DESCRIPTION	SYMBOL	MM	INCH	IN/MM	IN/IN	4:1	METRIC	PROJECTION
UCP2008-0675	2007/12/12	DRW:KIPPER	▽=0	4 PLACES ± --- ± ---	3 PLACES ± --- ± .010	MUELLER	DATE	1999/11/29		
CHKD:SONSEK	2007/12/14	APPR:SMITH	▽=0	2 PLACES ± 0.25 ± .015	1 PLACE ± 0.38 ± ---	MUELLER	DATE	1999/11/29		
HZ	2007/12/14			ANGULAR ± 1/2°		EDGLEY	DATE	1999/11/30		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
				SEE CHART		SD-44428-001		1 OF 2		
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	1	
J	MATERIAL NUMBER	NUMBER OF CIRCUITS	FINISH OPTION	RETENTION PEG OPTION	MATERIAL NUMBER	NUMBER OF CIRCUITS	FINISH OPTION	RETENTION PEG OPTION	<p style="text-align: center;">POLARIZATION LAYOUT 4-24 CIRCUITS</p>					J
I	44428-0401	04	A	YES	44428-1601	16	A	YES						I
H	44428-0402	04	B	YES	44428-1602	16	B	YES						H
G	44428-0403	04	C	YES	44428-1603	16	C	YES						G
F	44428-0404	04	A	NO	44428-1604	16	A	NO						F
E	44428-0405	04	B	NO	44428-1605	16	B	NO						E
D	44428-0406	04	C	NO	44428-1606	16	C	NO						D
C	44428-0601	06	A	YES	44428-1801	18	A	YES						C
B	44428-0602	06	B	YES	44428-1802	18	B	YES						B
A	44428-0603	06	C	YES	44428-1803	18	C	YES						A
	44428-0604	06	A	NO	44428-1804	18	A	NO						
	44428-0605	06	B	NO	44428-1805	18	B	NO						
	44428-0606	06	C	NO	44428-1806	18	C	NO						
	44428-0801	08	A	YES	44428-2001	20	A	YES						
	44428-0802	08	B	YES	44428-2002	20	B	YES						
	44428-0803	08	C	YES	44428-2003	20	C	YES						
	44428-0804	08	A	NO	44428-2004	20	A	NO						
	44428-0805	08	B	NO	44428-2005	20	B	NO						
	44428-0806	08	C	NO	44428-2006	20	C	NO						
	44428-1001	10	A	YES	44428-2201	22	A	YES						
	44428-1002	10	B	YES	44428-2202	22	B	YES						
	44428-1003	10	C	YES	44428-2203	22	C	YES						
	44428-1004	10	A	NO	44428-2204	22	A	NO						
	44428-1005	10	B	NO	44428-2205	22	B	NO						
	44428-1006	10	C	NO	44428-2206	22	C	NO						
	44428-1201	12	A	YES	44428-2401	24	A	YES						
	44428-1202	12	B	YES	44428-2402	24	B	YES						
	44428-1203	12	C	YES	44428-2403	24	C	YES						
	44428-1204	12	A	NO	44428-2404	24	A	NO						
	44428-1205	12	B	NO	44428-2405	24	B	NO						
	44428-1206	12	C	NO	44428-2406	24	C	NO						
	44428-1401	14	A	YES										
	44428-1402	14	B	YES										
	44428-1403	14	C	YES										
	44428-1404	14	A	NO										
	44428-1405	14	B	NO										
	44428-1406	14	C	NO										

SEE SHEET 1 EC NO. UCP2007-0836 DRAWN BY: ZORAN LIPPER CHECKED BY: CHRIS SUSEK APPROVED BY: JEFF SMITH DATE: 2006/10/04 DATE: 2006/10/04 DATE: 2006/10/05	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	$\nabla=0$ $\nabla=0$	4 PLACES ± --- ± --- 3 PLACES ± --- ± .010 2 PLACES ± 0.25 ± .015 1 PLACE ± 0.38 ± --- ANGULAR ±1/2°	IN/MM	4:1	METRIC	<input checked="" type="checkbox"/> THIRD ANGLE PROJECTION <input type="checkbox"/> FIRST ANGLE PROJECTION
	DRAWN BY: MUELLER CHECKED BY: MUELLER APPROVED BY: EDGLEY DATE: 1999/11/29 DATE: 1999/11/29 DATE: 1999/11/30	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		TITLE: MICRO FIT (3.0) DUAL ROW RIGHT ANGLE BMI HEADER ASS'Y MOLEX INCORPORATED	MATERIAL NO.: SEE CHART DOCUMENT NO.: SD-44428-001	SHEET NO.: 2 OF 2
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					