

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0022032181](#)  
**Status:** **Active**  
**Description:** 2.54mm (.100") Pitch KK® Wire-to-Board Header, Single Row, Vertical, 18 Circuits, PA Polyamide Nylon, Tin (Sn) Plating

**Documents:**

<a href="#">3D Model</a>	<a href="#">Product Specification PS-10-07 (PDF)</a>
<a href="#">Packaging Specification (PDF)</a>	<a href="#">RoHS Certificate of Compliance (PDF)</a>
<a href="#">Drawing (PDF)</a>	

**Agency Certification**

CSA	LR19980
UL	E29179

**General**

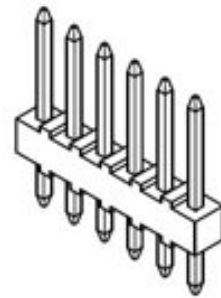
Product Family	PCB Headers
Series	<a href="#">4030</a>
Application	Board-to-Board, Wire-to-Board
Product Name	KK®

**Physical**

Breakaway	No
Circuits (Loaded)	18
Circuits (maximum)	18
Color - Resin	Natural (White)
Durability (mating cycles max)	25
Flammability	94V-0
Glow-Wire Compliant	No
Lock to Mating Part	None
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Resin	Nylon
Number of Rows	1
Orientation	Vertical
PC Tail Length (in)	0.135 In
PC Tail Length (mm)	3.43 mm
PCB Locator	No
PCB Retention	None
PCB Thickness Recommended (in)	0.062 In
PCB Thickness Recommended (mm)	1.60 mm
Packaging Type	Bag
Pitch - Mating Interface (in)	0.100 In
Pitch - Mating Interface (mm)	2.54 mm
Plating min: Mating (µin)	200
Plating min: Mating (µm)	5.00
Polarized to Mating Part	No
Polarized to PCB	No
Shrouded	No
Stackable	Yes
Surface Mount Compatible (SMC)	No
Temperature Range - Operating	0°C to +75°C
Termination Interface: Style	Through Hole

**Electrical**

Current - Maximum per Contact	4A
Voltage - Maximum	250V



Series

image - Reference only

**EU RoHS**

**ELV and RoHS Compliant**  
**REACH SVHC**  
 Not Reviewed  
**Halogen-Free Status**

**China RoHS**



**Not Reviewed**  
**Need more information on product environmental compliance?**

Email [productcompliance@molex.com](mailto: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**

[4030Series](#)

**Mates With**

[2695](#) , [6471](#) , [7880](#) , [4455](#) , [7720](#)

**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	235

**Material Info**

Old Part Number	A-4030-18A102
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**Reference - Drawing Numbers**

Packaging Specification	PK-4030-001
Product Specification	PS-10-07
Sales Drawing	SDA-4030

This document was generated on 05/13/2010

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13 12 11 10 9 8 7 6 5 4 3 2 1



RECOMMENDED P.C. BOARD HOLE DIMENSIONS

NOTES:

1. MATERIAL: NYLON, UL94V-0, COLOR: WHITE
2. FINISH: 102: 0.00508/0.00200 MIN TIN OVER 0.00254/0.00100 MIN COPPER  
501: 0.00051/0.00020 MIN GOLD OVER 0.00076/0.00030 MIN NICKEL
3. PARTS CONFORM TO PRODUCT SPECIFICATION PS-10-07.
4. BULK PACK PER PK-4030-001.
5. PINS MUST CONFORM TO SOLDERABILITY SPECIFICATION SMES-152.
6. PIN PUSH OUT FORCE: 2 LBS. MIN.
7. PARTS ARE STACKABLE END TO END AND SIDE TO SIDE ON (2.54)/.100 CENTERS.
8. SEE SDA-4030-002 FOR CUSTOMER DEFINED OPTIONS.
9. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

CKTS. NO. OF	DIM. B		DIM. A	
	mm	INCH	mm	INCH
2	.100 ± .002 ( 2.54 ± .05 )		.190 ± .008 ( 4.83 ± .20 )	
3	.200 ± .005 ( 5.08 ± .13 )		.290 ± .008 ( 7.37 ± .20 )	
4	.300 ± .005 ( 7.62 ± .13 )		.390 ± .008 ( 9.91 ± .20 )	
5	.400 ± .005 ( 10.16 ± .13 )		.490 ± .008 ( 12.45 ± .20 )	
6	.500 ± .006 ( 12.70 ± .15 )		.590 ± .009 ( 14.99 ± .23 )	
7	.600 ± .006 ( 15.24 ± .15 )		.690 ± .009 ( 17.53 ± .23 )	
8	.700 ± .006 ( 17.78 ± .15 )		.790 ± .009 ( 20.07 ± .23 )	
9	.800 ± .007 ( 20.32 ± .18 )		.890 ± .010 ( 22.61 ± .25 )	
10	.900 ± .007 ( 22.86 ± .18 )		.990 ± .010 ( 25.15 ± .25 )	
11	1.000 ± .007 ( 25.40 ± .18 )		1.090 ± .010 ( 27.69 ± .25 )	
12	1.100 ± .008 ( 27.94 ± .20 )		1.190 ± .011 ( 30.23 ± .28 )	
13	1.200 ± .008 ( 30.48 ± .20 )		1.290 ± .011 ( 32.77 ± .28 )	
14	1.300 ± .008 ( 33.02 ± .20 )		1.390 ± .011 ( 35.31 ± .28 )	
15	1.400 ± .008 ( 35.56 ± .20 )		1.490 ± .011 ( 37.85 ± .28 )	
16	1.500 ± .008 ( 38.10 ± .20 )		1.590 ± .011 ( 40.39 ± .28 )	
17	1.600 ± .009 ( 40.64 ± .23 )		1.690 ± .012 ( 42.93 ± .30 )	
18	1.700 ± .009 ( 43.18 ± .23 )		1.790 ± .012 ( 45.47 ± .30 )	
19	1.800 ± .009 ( 45.72 ± .23 )		1.890 ± .012 ( 48.01 ± .30 )	
20	1.900 ± .009 ( 48.26 ± .23 )		1.990 ± .012 ( 50.55 ± .30 )	
21	2.000 ± .010 ( 50.80 ± .25 )		2.090 ± .013 ( 53.09 ± .33 )	
22	2.100 ± .010 ( 53.34 ± .25 )		2.190 ± .013 ( 55.63 ± .33 )	
23	2.200 ± .010 ( 55.88 ± .25 )		2.290 ± .013 ( 58.17 ± .33 )	
24	2.300 ± .010 ( 58.42 ± .25 )		2.390 ± .013 ( 60.71 ± .33 )	
25	2.400 ± .011 ( 60.96 ± .28 )		2.490 ± .014 ( 63.25 ± .36 )	
26	2.500 ± .011 ( 63.50 ± .28 )		2.590 ± .014 ( 65.79 ± .36 )	
27	2.600 ± .011 ( 66.04 ± .28 )		2.690 ± .014 ( 68.33 ± .36 )	
28	2.700 ± .011 ( 68.58 ± .28 )		2.790 ± .014 ( 70.87 ± .36 )	

2 CH2  
1 CH2  
SHI REV.

<b>UPDATE NOTES</b> EC NO: UCP2008-0017 DRAWN: ADERR 2007/10/11 CHKD: LSCHMI DT 2007/10/11 APPR: FSM TH 2007/10/12	<b>QUALITY SYMBOLS</b> ▽=0 ▽=0	<b>GENERAL TOLERANCES (UNLESS SPECIFIED)</b> mm INCH		<b>DIMENSION STYLE</b> MM/IN		SCALE ---	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	
		4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- ANGULAR ±1/2°	DRAWN BY SAMIEC DATE 1988/06/10 CHECKED BY PATEL DATE 1988/06/10 APPROVED BY LENZ DATE 1988/06/10	<b>SEE CHART</b> MATERIAL NO. SIZE C		<b>MOLEX INCORPORATED</b> DOCUMENT NO. SDA-4030		<b>KK HEADER</b> (2.54)/.100 CENTERS STD CATALOG PRODUCTS	

12 11 10 9 8 7 6 5 4 3 2 1

13	12	11	10	9	8	7	6	5	4	3	2	1
ENG. NO.	PIN NO.	DIM. L	DIM. X	DIM. Z	PACKAGE PER	EDP NO. IN COL NO						
A-4030 -NA(102)	2766 -I(102)	.560 (14.22)	.295 (7.49 )	.135 (3.43 )	PK-4030-001 BULK	1						
A-4030 -NA(50 I)	2766 -I(50 I)	.560 (14.22)	.295 (7.49 )	.135 (3.43 )	PK-4030-001 BULK	2						
A- -	-	( )	( )	( )								
A- -	-	( )	( )	( )								
A- -	-	( )	( )	( )								
A- -	-	( )	( )	( )								

COLUMN NO. 1		COLUMN NO. 2			
EDP NO.	ENG. NO.	NO OF CKTS	NO OF CKTS		
22-03-202 I	A-4030-02A(102)	2	22-10-202 I	A-4030-02A(50 I)	2
22-03-203 I	A-4030-03A(102)	3	22-10-203 I	A-4030-03A(50 I)	3
22-03-204 I	A-4030-04A(102)	4	22-10-204 I	A-4030-04A(50 I)	4
22-03-205 I	A-4030-05A(102)	5	22-10-205 I	A-4030-05A(50 I)	5
22-03-206 I	A-4030-06A(102)	6	22-10-206 I	A-4030-06A(50 I)	6
22-03-207 I	A-4030-07A(102)	7	22-10-207 I	A-4030-07A(50 I)	7
22-03-208 I	A-4030-08A(102)	8	22-10-208 I	A-4030-08A(50 I)	8
22-03-209 I	A-4030-09A(102)	9	22-10-209 I	A-4030-09A(50 I)	9
22-03-210 I	A-4030-10A(102)	10	22-10-210 I	A-4030-10A(50 I)	10
22-03-211 I	A-4030-11A(102)	11	22-10-211 I	A-4030-11A(50 I)	11
22-03-212 I	A-4030-12A(102)	12	22-10-212 I	A-4030-12A(50 I)	12
22-03-213 I	A-4030-13A(102)	13	22-10-213 I	A-4030-13A(50 I)	13
22-03-214 I	A-4030-14A(102)	14	22-10-214 I	A-4030-14A(50 I)	14
22-03-215 I	A-4030-15A(102)	15	22-10-215 I	A-4030-15A(50 I)	15
22-03-216 I	A-4030-16A(102)	16	22-10-216 I	A-4030-16A(50 I)	16
22-03-217 I	A-4030-17A(102)	17	22-10-217 I	A-4030-17A(50 I)	17
22-03-218 I	A-4030-18A(102)	18	22-10-218 I	A-4030-18A(50 I)	18
22-03-219 I	A-4030-19A(102)	19	22-10-219 I	A-4030-19A(50 I)	19
22-03-220 I	A-4030-20A(102)	20	22-10-220 I	A-4030-20A(50 I)	20
22-03-221 I	A-4030-21A(102)	21	22-10-221 I	A-4030-21A(50 I)	21
22-03-222 I	A-4030-22A(102)	22	22-10-222 I	A-4030-22A(50 I)	22
22-03-223 I	A-4030-23A(102)	23	22-10-223 I	A-4030-23A(50 I)	23
22-03-224 I	A-4030-24A(102)	24	22-10-224 I	A-4030-24A(50 I)	24
22-03-225 I	A-4030-25A(102)	25	22-10-225 I	A-4030-25A(50 I)	25
22-03-226 I	A-4030-26A(102)	26	22-10-226 I	A-4030-26A(50 I)	26
22-03-227 I	A-4030-27A(102)	27	22-10-227 I	A-4030-27A(50 I)	27
22-03-228 I	A-4030-28A(102)	28	22-10-228 I	A-4030-28A(50 I)	28

<b>UPDATE TITLE BLOCK</b> EC NO: UCP2008-0017 2007/10/11 DRW:ADERR CHKD:LSCHMIDT 2007/10/11 APPR:FSM LTH 2007/10/12	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>± .005</td> <td>± .0005</td> </tr> <tr> <td>3 PLACES</td> <td>± .005</td> <td>± .0005</td> </tr> <tr> <td>2 PLACES</td> <td>± .005</td> <td>± .0005</td> </tr> <tr> <td>1 PLACE</td> <td>± .005</td> <td>± .0005</td> </tr> </table>		mm	INCH	4 PLACES	± .005	± .0005	3 PLACES	± .005	± .0005	2 PLACES	± .005	± .0005	1 PLACE	± .005	± .0005	DIMENSION STYLE <b>IN/MM</b>	SCALE ---	DESIGN UNITS <b>INCH</b>	THIRD ANGLE PROJECTION
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CHECKED BY PATEL	DATE 1993/07/15	<b>MOLEX INCORPORATED</b>																			
APPROVED BY LENZ	DATE 1993/07/15	MATERIAL NO. <b>SEE CHART</b>	DOCUMENT NO. <b>SDA-4030</b>	SHEET NO. <b>2 OF 2</b>	SIZE <b>C</b>	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															