This document was generated on 04/09/2010

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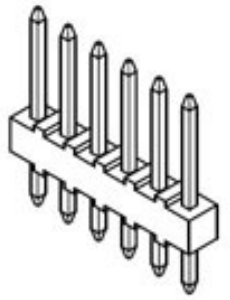
Part Number: 0022102091

Status: Active

Description: 2.54mm (.100") Pitch KK® Wire-to-Board Header, Single Row, Vertical, 9 Circuits, PA Polyamide Nylon, Gold (Au) Plating



Series image - Reference only

Documents:

3D Model
Drawing (PDF)
Packaging Specification (PDF)
Product Specification PS-10-07 (PDF)
RoHS Certificate of Compliance (PDF)

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	PCB Headers
Series	4030
Application	Board-to-Board, Wire-to-Board
Product Name	KK®

Physical

Breakaway	No
Circuits (Loaded)	9
Circuits (maximum)	9
Color - Resin	Natural (White)
Durability (mating cycles max)	100
Flammability	94V-0
Glow-Wire Compliant	No
Lock to Mating Part	None
Material - Metal	Brass
Material - Plating Mating	Gold
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)	20
Plating min: Mating (µm)	0.50
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

EU RoHS
ELV and RoHS Compliant
REACH SVHC
Not Reviewed
Halogen-Free Status
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
4030Series

Mates With
2695 , 6471 , 7880 , 4455 , 7720

Solder Process Data

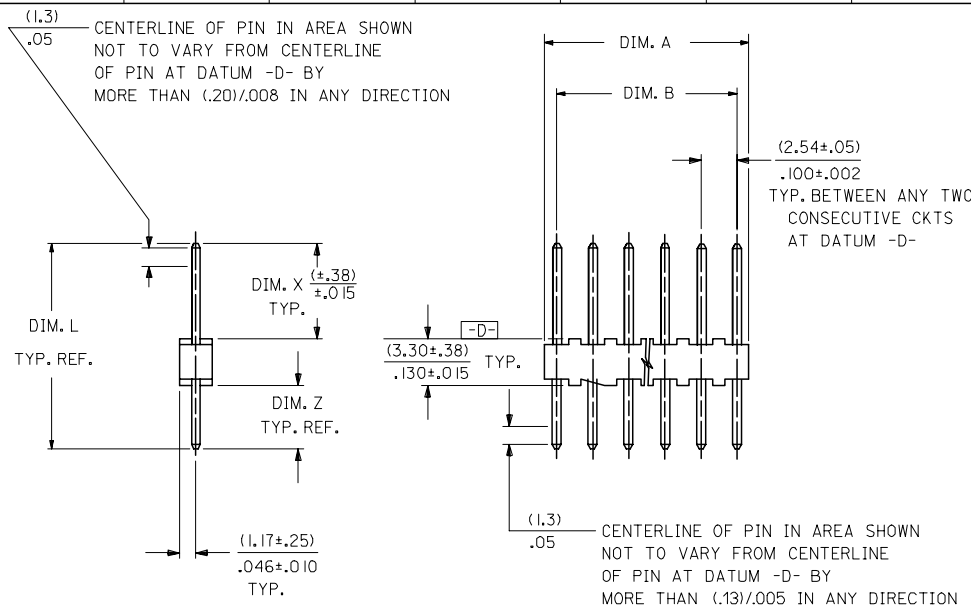
Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	235

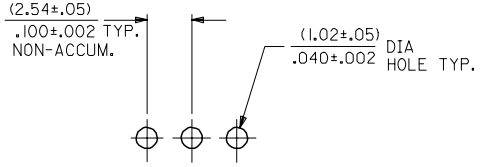
Material Info

Old Part Number	A-4030-09A501

Reference - Drawing Numbers

Product Specification	PS-10-07
Sales Drawing	SDA-4030, SDA-4030-002





RECOMMENDED P.C. BOARD HOLE DIMENSIONS

CKTS. NO. OF	DIM. B	DIM. A
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)

NOTES:

1. MATERIAL: NYLON, UL94V-0, COLOR: WHITE
2. FINISH: 102: 0.00508/.000200 MIN TIN OVER 0.00254/.000100 MIN COPPER
   501: 0.00051/.000020 MIN GOLD OVER 0.00076/.000030 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 CUTOMER DEFINED OPTIONS.
9. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC
   SPECIFICATION PS-45499-002.

UPDATE NOTES
EC NO: UCP2008-0017 2007/10/11
DRWN:ADERR 2007/10/11
CH'KD:LSCHMIDT 2007/10/12
APPR:FSMITH
DESCRIPTION
REV
CH2

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM/IN
SCALE: ---
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

DRAWN BY	SAMIEC	DATE 1988/06/10
CHECKED BY	PATEL	DATE 1988/06/10
APPROVED BY	LENZ	DATE 1988/06/10

TITLE: KK HEADER (2.54)/.100 CENTERS STD CATALOG PRODUCTS

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDA-4030
SHEET NO.: 1 OF 2

SIZE C

SH.	REV.
2	CH2
1	CH2

ENG. NO.	PIN NO.	DIM. L	DIM. X	DIM. Z	PACKAGE PER	EDP NO. IN COL NO
A-4030 -NA(102)	2766 -1(102)	.560 (14.22)	.295 (7.49)	.135 (3.43)	PK-4030-001 BULK	1
A-4030 -NA(501)	2766 -1(501)	.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	EDP NO.	ENG. NO.	NO OF CKTS
22-03-2021	A-4030-02A(102)	2	22-10-2021	A-4030-02A(501)	2
22-03-2031	A-4030-03A(102)	3	22-10-2031	A-4030-03A(501)	3
22-03-2041	A-4030-04A(102)	4	22-10-2041	A-4030-04A(501)	4
22-03-2051	A-4030-05A(102)	5	22-10-2051	A-4030-05A(501)	5
22-03-2061	A-4030-06A(102)	6	22-10-2061	A-4030-06A(501)	6
22-03-2071	A-4030-07A(102)	7	22-10-2071	A-4030-07A(501)	7
22-03-2081	A-4030-08A(102)	8	22-10-2081	A-4030-08A(501)	8
22-03-2091	A-4030-09A(102)	9	22-10-2091	A-4030-09A(501)	9
22-03-2101	A-4030-10A(102)	10	22-10-2101	A-4030-10A(501)	10
22-03-2111	A-4030-11A(102)	11	22-10-2111	A-4030-11A(501)	11
22-03-2121	A-4030-12A(102)	12	22-10-2121	A-4030-12A(501)	12
22-03-2131	A-4030-13A(102)	13	22-10-2131	A-4030-13A(501)	13
22-03-2141	A-4030-14A(102)	14	22-10-2141	A-4030-14A(501)	14
22-03-2151	A-4030-15A(102)	15	22-10-2151	A-4030-15A(501)	15
22-03-2161	A-4030-16A(102)	16	22-10-2161	A-4030-16A(501)	16
22-03-2171	A-4030-17A(102)	17	22-10-2171	A-4030-17A(501)	17
22-03-2181	A-4030-18A(102)	18	22-10-2181	A-4030-18A(501)	18
22-03-2191	A-4030-19A(102)	19	22-10-2191	A-4030-19A(501)	19
22-03-2201	A-4030-20A(102)	20	22-10-2201	A-4030-20A(501)	20
22-03-2211	A-4030-21A(102)	21	22-10-2211	A-4030-21A(501)	21
22-03-2221	A-4030-22A(102)	22	22-10-2221	A-4030-22A(501)	22
22-03-2231	A-4030-23A(102)	23	22-10-2231	A-4030-23A(501)	23
22-03-2241	A-4030-24A(102)	24	22-10-2241	A-4030-24A(501)	24
22-03-2251	A-4030-25A(102)	25	22-10-2251	A-4030-25A(501)	25
22-03-2261	A-4030-26A(102)	26	22-10-2261	A-4030-26A(501)	26
22-03-2271	A-4030-27A(102)	27	22-10-2271	A-4030-27A(501)	27
22-03-2281	A-4030-28A(102)	28	22-10-2281	A-4030-28A(501)	28

UPDATE TITLE BLOCK
EC NO: UCP2008-0017 2007/10/11
DRWN:ADERR 2007/10/11
CHKD:LSCHMIDT 2007/10/12
APPR:FSMITH
DESCRIPTION
CH2
REV

QUALITY SYMBOLS
▼=0
Ⓒ▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

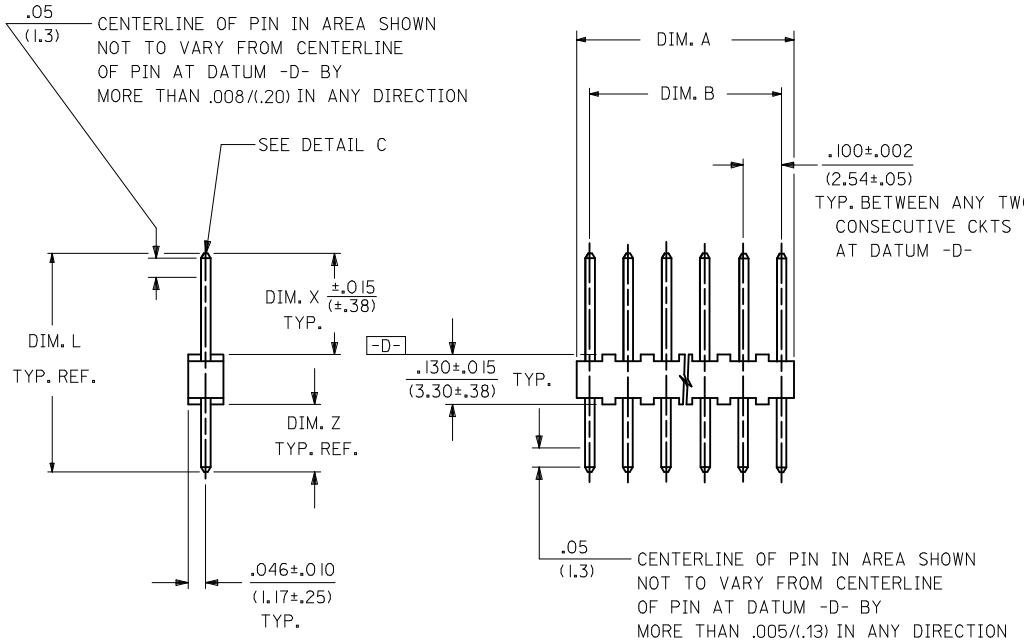
DIMENSION STYLE: IN/MM
SCALE: ---
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

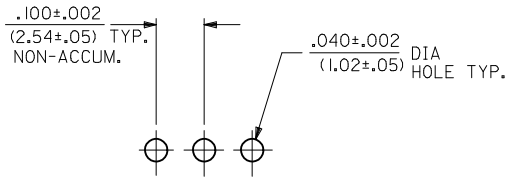
DRAWN BY: SAMIEC DATE: 1993/07/15
CHECKED BY: PATEL DATE: 1993/07/15
APPROVED BY: LENZ DATE: 1993/07/15

TITLE
KK HEADER
(2.54)/.100 CENTERS
STD CATALOG PRODUCTS

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDA-4030
SHEET NO.: 2 OF 2
SIZE: C





PCB LAYOUT: COMPONENT SIDE
TYPICAL PCB THICKNESS: .062/(1.57)

A-4030-N ✱ (✱) ✱

NO. OF CKTS.

VERSION
LETTER CHANGES WHEN PIN
NO. OR PRESS DIM. CHANGES.

PLATING CODE
SEE NOTE 2

SECONDARY OPERATIONS	
CODE	PACKAGE
BLANK	BULK PER PK-4030-001
A	TUBE PER PK-44743-002

CKTS. NO. OF	DIM. B	DIM. A
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)
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28	2.700 ± .011 (68.58 ± .28)	2.790 ± .014 (70.87 ± .36)

NOTES:

1. MATERIAL: WAFER: NYLON, UL94V-0, COLOR: WHITE
   PINS: COPPER ALLOY
2. FINISH: 102: .000200/0.00508 MIN TIN OVER .000100/0.00254 MIN COPPER
   132: .000200/0.00508 MIN TIN OVER .000200/0.00508 MIN COPPER
   501: .000020/0.00051 MIN GOLD OVER .000030/0.00076 MIN NICKEL
   503: .000030/0.00076 MIN GOLD OVER .000050/0.00127 MIN NICKEL
   516: .000010/0.00025 MIN GOLD OVER .000030/0.00076 MIN NICKEL
3. PARTS CONFORM TO PRODUCT SPECIFICATION PS-10-07.
4. PACKAGING INFORMATION: SEE LEGEND
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 .100/(2.54) CENTERS.
8. SEE SDA-4030 FOR STANDARD CATALOG PRODUCTS.
9. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF
   COSMETIC SPECIFICATION PS-45499-002.

ADD 22-03-5117 2009/10/16
EC NO: UCP2010-0896 2009/10/20
DRWN:MKIPPER
CHKD:SSOUSEK
APPR:FSMITH
DESCRIPTION
C15
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---

ANGULAR ±1/2°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM
SCALE: ---
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

DRAWN BY	SAMIEC	DATE 06/10/88
CHECKED BY	PATEL	DATE 06/10/88
APPROVED BY	LENZ	DATE 06/10/88

TITLE: KK 100 HEADER FLAT CUSTOM PRODUCTS

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDA-4030-002
SHEET NO.: 1 OF 16

SIZE C