

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0022122241](#)
Status: **Active**
Description: 2.54mm (.100") Pitch KK® Wire-to-Board Header, Single Row, Right Angle, 24 Circuits, PA Polyamide Nylon, Gold (Au) Plating

Documents:

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

Agency Certification

CSA	LR19980
UL	E29179

General

Product Family	PCB Headers
Series	4094
Application	Board-to-Board, Wire-to-Board
Product Name	KK®

Physical

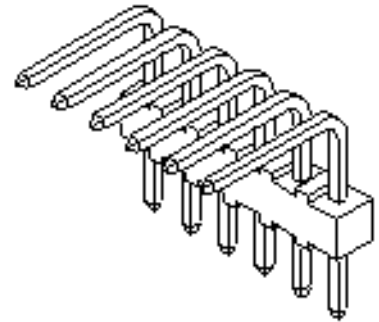
Breakaway	No
Circuits (Loaded)	24
Circuits (maximum)	24
Color - Resin	Natural (White)
Durability (mating cycles max)	100
Flammability	94V-0
Glow-Wire Compliant	No
Lock to Mating Part	None
Material - Metal	Brass
Material - Plating Mating	Gold
Material - Resin	Nylon
Number of Rows	1
Orientation	Right Angle
PC Tail Length (in)	0.124 In
PC Tail Length (mm)	3.15 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
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

Solder Process Data

Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	Wave Capable (TH only)



Series
image - Reference only

EU RoHS

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

Not Reviewed

**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.

China RoHS



Search Parts in this Series
[4094Series](#)

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

Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	235
Material Info	
Old Part Number	A-4094-24A501
Reference - Drawing Numbers	
Product Specification	PS-10-07
Sales Drawing	SDA-4094

This document was generated on 04/12/2010

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CENTERLINE OF PIN IN AREA SHOWN
NOT TO VARY FROM CENTERLINE
OF PIN AT DATUM -E- BY
MORE THAN (0.20)/.008 IN ANY DIRECTION

DIM. W
TYP. REF.

DIM. X
TYP. REF.

DIM. Y
TYP. REF.

DIM. Z
TYP. REF.

A-4094-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-4094-001
A	PK-40873-0020

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)

14	AD1
13	AD1
12	AD1
11	AD1
10	AD1
9	AD1
8	AD1
7	AD1
6	AD1
5	AD1
4	AD1
3	AD1
2	AD1
1	AD3
SHEET	REV.

ADD 1:18 DIMENSION	EC NO: UCP2009-0323			2008/08/22		2008/08/26		2008/08/27		QUALITY SYMBOLS	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE MM/IN		SCALE ---		DESIGN UNITS INCH		THIRD ANGLE PROJECTION		TITLE WAFER ASSY FLAT MINI KK (4030 WITH BENT PINS) 4094 SERIES DRAWING MOLEX INCORPORATED	DOCUMENT NO. SDA-4094	SHEET NO. 1 OF 14	
												mm		INCH		DRAWN BY KSS		DATE 1984/09/10								
												4 PLACES ± ---		± ---		CHECKED BY		DATE								
												3 PLACES ± ---		± .005		NP		1984/09/10								
												2 PLACES ± 0.13		± .01		APPROVED BY		DATE								
												1 PLACE ± 0.25		± ---		KJA		1984/09/10								
												ANGULAR ±1/2°														
												DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS														
												SIZE						THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION								

(2.54±.05)
.100±.002

TYP. BETWEEN ANY
TWO CONSECUTIVE
CKTS.
AT DATUM -D-

(3.30±.38)
.130±.015 TYP.

(2.54±.05)
.100±.002 TYP.
NON-ACCUM.

(1.02±.05)
.040±.002 DIA
HOLE TYP.

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

NOTES:

- MATERIAL: NYLON, UL 94V-0, COLOR: WHITE
- FINISH:
 - (102) OVERALL TIN: 0.00508/.000200 MIN. OVER
COPPER UNDERPLATE: 0.00254/.000100 MIN.
 - (103) OVERALL TIN: 0.00508/.000200 MIN. OVER
COPPER UNDERPLATE: 0.00127/.000050 MIN.
 - (501) OVERALL GOLD: 0.00051/.000020 MIN. OVER
NICKEL UNDERPLATE: 0.00076/.000030 MIN.
 - (503) OVERALL GOLD: 0.00076/.000030 MIN. OVER
NICKEL UNDERPLATE: 0.00127/.000050 MIN.
 - (508) OVERALL GOLD: 0.00076/.000030 MIN. OVER
NICKEL UNDERPLATE: 0.00076/.000030 MIN.
 - (516) OVERALL GOLD: 0.00025/.000010 MIN. OVER
NICKEL UNDERPLATE: 0.00076/.000030 MIN.
- PARTS CONFORM TO PRODUCT SPECIFICATION PS-10-07.
- PACKAGING INFORMATION: SEE LEGEND.
- PINS MUST CONFORM TO SOLDERABILITY SPECIFICATION SMES-152.
- PIN PUSHOUT FORCE: 2 LBS. MIN.
- PARTS ARE STACKABLE END TO END AND SIDE TO SIDE ON
(2.54)/.100 CENTERS.
- 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 PLATING.
- PARTS CONFORM TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION
PS-45499-002.

	13	12	11	10	9	8	7	6	5	4	3	2	1		
J	A-4094-NA I02		A-4094-NA50 I		A-4094-NAB I02		A-4094-NAC I02		A-4094-NAJ I02		A-4094-NAL I02		J		
	PART NO.	ENG. NO.	PART NO.	ENG. NO.	PART NO.	ENG. NO.	PART NO.	ENG. NO.	PART NO.	ENG. NO.	PART NO.	ENG. NO.			
	22-05-202 I	* A-4094-2A I02	22- I2-202 I	* A-4094-2A50 I	22-05-2026	A-4094-2AB I02			A-4094-2AC I02			A-4094-2AJ I02		22-05-2027	A-4094-2AL I02
I	22-05-203 I	* A-4094-3A I02	22- I2-203 I	* A-4094-3A50 I	22-05-2036	A-4094-3AB I02			A-4094-3AC I02	22-05-3038	A-4094-3AJ I02	22-05-2037	A-4094-3AL I02	I	
	22-05-204 I	* A-4094-4A I02	22- I2-204 I	* A-4094-4A50 I	22-05-2046	A-4094-4AB I02			A-4094-4AC I02	22-05-3048	A-4094-4AJ I02	22-05-2047	A-4094-4AL I02		
	22-05-205 I	* A-4094-5A I02	22- I2-205 I	* A-4094-5A50 I	22-05-2056	A-4094-5AB I02			A-4094-5AC I02	22-05-3058	A-4094-5AJ I02	22-05-2057	A-4094-5AL I02		
H	22-05-206 I	* A-4094-6A I02	22- I2-206 I	* A-4094-6A50 I	22-05-2066	A-4094-6AB I02			A-4094-6AC I02	22-05-3068	A-4094-6AJ I02	22-05-2067	A-4094-6AL I02	H	
	22-05-207 I	* A-4094-7A I02	22- I2-207 I	* A-4094-7A50 I	22-05-2076	A-4094-7AB I02			A-4094-7AC I02	22-05-3078	A-4094-7AJ I02	22-05-2077	A-4094-7AL I02		
	22-05-208 I	* A-4094-8A I02	22- I2-208 I	* A-4094-8A50 I	22-05-2086	A-4094-8AB I02			A-4094-8AC I02	22-05-3088	A-4094-8AJ I02	22-05-2087	A-4094-8AL I02		
G	22-05-209 I	* A-4094-9A I02	22- I2-209 I	* A-4094-9A50 I	22-05-2096	A-4094-9AB I02			A-4094-9AC I02	22-05-3098	A-4094-9AJ I02	22-05-2097	A-4094-9AL I02	G	
	22-05-2 I0 I	* A-4094- I0A I02	22- I2-2 I0 I	* A-4094- I0A50 I	22-05-2 I06	A-4094- I0AB I02			A-4094- I0AC I02	22-05-3 I08	A-4094- I0AJ I02	22-05-2 I07	A-4094- I0AL I02		
	22-05-2 I I I	* A-4094- I I A I02	22- I2-2 I I I	* A-4094- I I A50 I	22-05-2 I I6	A-4094- I I AB I02			A-4094- I I AC I02	22-05-3 I I8	A-4094- I I AJ I02	22-05-2 I I7	A-4094- I I AL I02		
F	22-05-2 I2 I	* A-4094- I2 A I02	22- I2-2 I2 I	* A-4094- I2 A50 I	22-05-2 I26	A-4094- I2 AB I02			A-4094- I2 AC I02	22-05-3 I28	A-4094- I2 AJ I02	22-05-2 I27	A-4094- I2 AL I02	F	
	22-05-2 I3 I	* A-4094- I3 A I02	22- I2-2 I3 I	* A-4094- I3 A50 I	22-05-2 I36	A-4094- I3 AB I02			A-4094- I3 AC I02	22-05-3 I38	A-4094- I3 AJ I02	22-05-2 I37	A-4094- I3 AL I02		
	22-05-2 I4 I	* A-4094- I4 A I02	22- I2-2 I4 I	* A-4094- I4 A50 I	22-05-2 I46	A-4094- I4 AB I02			A-4094- I4 AC I02	22-05-3 I48	A-4094- I4 AJ I02	22-05-2 I47	A-4094- I4 AL I02		
E	22-05-2 I5 I	* A-4094- I5 A I02	22- I2-2 I5 I	* A-4094- I5 A50 I	22-05-2 I56	A-4094- I5 AB I02			A-4094- I5 AC I02	22-05-3 I58	A-4094- I5 AJ I02	22-05-2 I57	A-4094- I5 AL I02	E	
	22-05-2 I6 I	* A-4094- I6 A I02	22- I2-2 I6 I	* A-4094- I6 A50 I	22-05-2 I66	A-4094- I6 AB I02			A-4094- I6 AC I02	22-05-3 I68	A-4094- I6 AJ I02	22-05-2 I67	A-4094- I6 AL I02		
	22-05-2 I7 I	* A-4094- I7 A I02	22- I2-2 I7 I	* A-4094- I7 A50 I	22-05-2 I76	A-4094- I7 AB I02			A-4094- I7 AC I02	22-05-3 I78	A-4094- I7 AJ I02	22-05-2 I77	A-4094- I7 AL I02		
D	22-05-2 I8 I	* A-4094- I8 A I02	22- I2-2 I8 I	* A-4094- I8 A50 I	22-05-2 I86	A-4094- I8 AB I02			A-4094- I8 AC I02	22-05-3 I88	A-4094- I8 AJ I02	22-05-2 I87	A-4094- I8 AL I02	D	
	22-05-2 I9 I	* A-4094- I9 A I02	22- I2-2 I9 I	* A-4094- I9 A50 I	22-05-2 I96	A-4094- I9 AB I02			A-4094- I9 AC I02	22-05-3 I98	A-4094- I9 AJ I02	22-05-2 I97	A-4094- I9 AL I02		
	22-05-220 I	* A-4094-20A I02	22- I2-220 I	* A-4094-20A50 I	22-05-2206	A-4094-20AB I02			A-4094-20AC I02	22-05-3208	A-4094-20AJ I02	22-05-2207	A-4094-20AL I02		
C	22-05-22 I I	* A-4094-2 I A I02	22- I2-22 I I	* A-4094-2 I A50 I	22-05-22 I6	A-4094-2 I AB I02			A-4094-2 I AC I02	22-05-32 I8	A-4094-2 I AJ I02	22-05-22 I7	A-4094-2 I AL I02	C	
	22-05-222 I	* A-4094-22A I02	22- I2-222 I	* A-4094-22A50 I	22-05-2226	A-4094-22AB I02			A-4094-22AC I02	22-05-3228	A-4094-22AJ I02	22-05-2227	A-4094-22AL I02		
	22-05-223 I	* A-4094-23A I02	22- I2-223 I	* A-4094-23A50 I	22-05-2236	A-4094-23AB I02			A-4094-23AC I02	22-05-3238	A-4094-23AJ I02	22-05-2237	A-4094-23AL I02		
B	22-05-224 I	* A-4094-24A I02	22- I2-224 I	* A-4094-24A50 I	22-05-2246	A-4094-24AB I02			A-4094-24AC I02	22-05-3248	A-4094-24AJ I02	22-05-2247	A-4094-24AL I02	B	
	22-05-225 I	* A-4094-25A I02	22- I2-225 I	* A-4094-25A50 I	22-05-2256	A-4094-25AB I02			A-4094-25AC I02	22-05-3258	A-4094-25AJ I02	22-05-2257	A-4094-25AL I02		
	22-05-226 I	A-4094-26A I02	22- I2-226 I	A-4094-26A50 I	22-05-2266	A-4094-26AB I02			A-4094-26AC I02	22-05-3268	A-4094-26AJ I02	22-05-2267	A-4094-26AL I02		
A	22-05-227 I	A-4094-27A I02	22- I2-227 I	A-4094-27A50 I	22-05-2276	A-4094-27AB I02			A-4094-27AC I02	22-05-3278	A-4094-27AJ I02	22-05-2277	A-4094-27AL I02	A	
	22-05-228 I	A-4094-28A I02	22- I2-228 I	A-4094-28A50 I	22-05-2286	A-4094-28AB I02			A-4094-28AC I02	22-05-3288	A-4094-28AJ I02	22-05-2287	A-4094-28AL I02		
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