

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0022123102](#)
Status: **Active**
Description: 2.54mm (.100") Pitch KK® Wire-to-Board Header, Single Row, Right Angle, 10 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

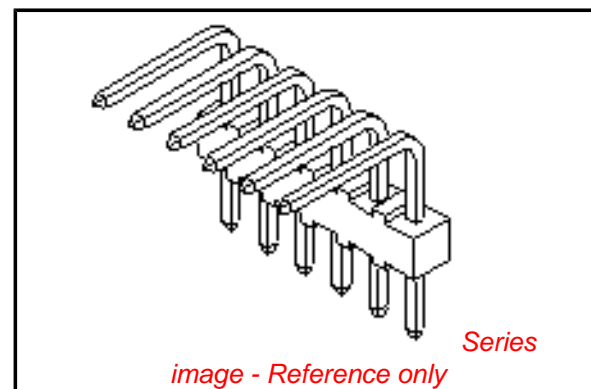
General

Product Family PCB Headers
 Series [4094](#)
 Application Board-to-Board, Wire-to-Board
 Product Name KK®

Physical

Breakaway No
 Circuits (Loaded) 10
 Circuits (maximum) 10
 Color - Resin Natural (White)
 Durability (mating cycles max) 100
 Flammability 94V-0
 Glow-Wire Compliant No
 Lock to Mating Part None
 Material - Metal Phosphor Bronze
 Material - Plating Mating Gold
 Material - Plating Termination Nickel
 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
 Plating min: Mating (µin) 20
 Plating min: Mating (µm) 0.5
 Plating min: Termination (µin) 20
 Plating min: Termination (µm) 0.5
 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



EU RoHS **China RoHS**

Compliance Status

Not Reviewed

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.

Search Parts in this Series

[4094Series](#)

Mates With

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

Current - Maximum per Contact
Voltage - Maximum

4A
250V

Material Info

Old Part Number

409410CB501

Reference - Drawing Numbers

Product Specification

PS-10-07

Sales Drawing

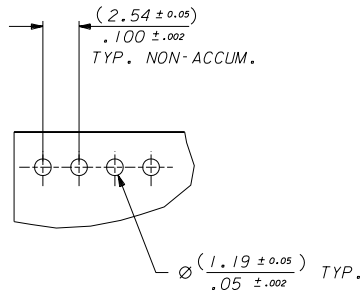
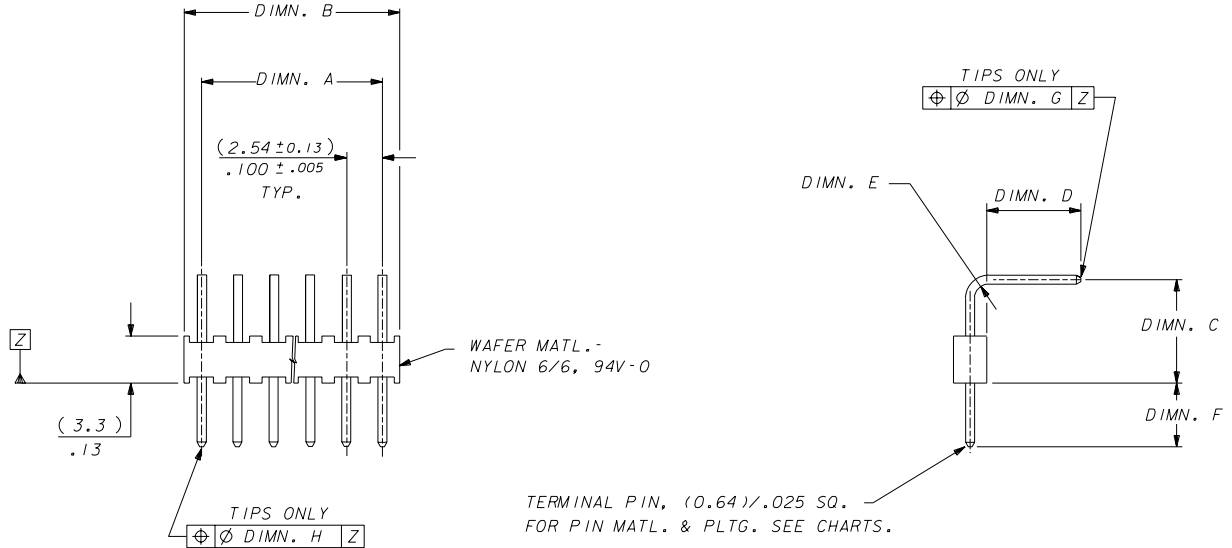
SDA-4094-N*

This document was generated on 03/19/2010

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NO OF WAYS	DIMN." A"	DIMN." B"
2	(2.54) / .100	(4.83) / .190
3	(5.08) / .200	(7.37) / .290
4	(7.62) / .300	(9.91) / .390
5	(10.16) / .400	(12.45) / .490
6	(12.70) / .500	(14.99) / .590
7	(15.24) / .600	(17.53) / .690
8	(17.78) / .700	(20.07) / .790
9	(20.32) / .800	(22.61) / .890
10	(22.86) / .900	(25.15) / .990
11	(25.40) / 1.000	(27.69) / 1.090
12	(27.94) / 1.100	(30.23) / 1.190
13	(30.48) / 1.200	(32.77) / 1.290
14	(33.02) / 1.300	(35.31) / 1.390
15	(35.56) / 1.400	(37.85) / 1.490
16	(38.10) / 1.500	(40.39) / 1.590
17	(40.64) / 1.600	(42.93) / 1.690
18	(43.18) / 1.700	(45.47) / 1.790
19	(45.72) / 1.800	(48.00) / 1.890
20	(48.26) / 1.900	(50.55) / 1.990
21	(50.80) / 2.000	(53.09) / 2.090
22	(53.34) / 2.100	(55.63) / 2.190
23	(55.88) / 2.200	(58.17) / 2.290
24	(58.42) / 2.300	(60.71) / 2.390
25	(60.96) / 2.400	(63.25) / 2.490
26	(63.50) / 2.500	(65.79) / 2.590
27	(66.04) / 2.600	(68.33) / 2.690
28	(68.58) / 2.700	(70.87) / 2.790

A-4094-N*(*)
 NO. OF CKTS. | PLATING CODE PER ES-88.
 |
 | VERSION



RECOMMENDED PCB HOLE DIMENSIONS

NOTES:

1. PINS MUST CONFORM TO SOLDERABILITY SPEC. ES-152.
2. PIN PUSH OUT FORCE (0.907 Kg)/2 LBS. MIN.
3. PARTS ARE STACKABLE END TO END AND SIDE TO SIDE ON (2.54)/.100 CENTERS.
4. FOR DIMENSIONS C,D,E,F,G & H SEE SUBSEQUENT SHEETS.
5. THIS PART CONFORMS TO PROD.SPEC.99020-0088

FOR PREVIOUS DRAWING ISSUES SEE MRL.

NEW PROD. SPEC. 99020-0088 ADD'D & BORDER UP-DATE	NO. E2003-0993	DRWN: PS-HEAHAN 03/06/03	CHK: / / /	APPR: / / /
REV	DESCRIPTION	QUALITY SYMBOLS	GENERAL TOLERANCES: (UNLESS SPECIFIED)	

MAJOR	MINOR	CRITICAL
▲	▽	△

4 PLACES	±0.	±.
3 PLACES	±0.	±.010
2 PLACES	±0.25	±.015
1 PLACE	±0.38	±.
ANGULAR: ± 0		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

SCALE 4:1	DESIGN UNITS <input checked="" type="checkbox"/> mm <input type="checkbox"/> INCH	THIRD ANGLE PROJECTION
DRAWN BY & DATE MCC 9 / 1 / 87		TITLE: WAFER ASSY, RT. ANGLE (2.54)/.100 CENTRES (0.64)/.025 SQ. PIN
CHECKED BY & DATE		MATERIAL NO. SEE CHART
APPROVED BY & DATE		
CAD FILENAME S44894X1.DGN		DRAWING NO. SDA-4094-N *

DIMENSIONS: <input checked="" type="checkbox"/> mm <input type="checkbox"/> INCH <input type="checkbox"/> mm ONLY <input type="checkbox"/> mm ONLY		SHT 2	REV J
BEVISE ON CAD ONLY		I	K
MATERIAL NO. SEE CHART		SHEET NO. 1 OF 2	
DRAWING NO. SDA-4094-N *		SIZE C	

PART NO. SEE CHART
 DWG NO. SDA-4094-N *

	13	12	11	10	9	8	7	6	5	4	3	2	1
J													
I													
H													
G													
F													
E													
D													
C													
B													
A													

PART NO. SEE CHART
DWG. NO. SDA-4094-N*

PIN MATERIAL	A-4094-NBX(50 I)		A-4094-NCB(50 I)		A-4094-NMA(50 I)	
DIMn. C	(4.30)/.169 ± $\begin{matrix} 0.51 \\ .020 \end{matrix}$		(4.00)/.157 ± $\begin{matrix} 0.51 \\ .020 \end{matrix}$		(4.01)/.157 ± $\begin{matrix} 0.51 \\ .020 \end{matrix}$	
DIMn. D	(3.16)/.124 ± $\begin{matrix} 0.51 \\ .020 \end{matrix}$		(12.93)/.509 ± $\begin{matrix} 0.51 \\ .020 \end{matrix}$		(9.88)/.389 ± $\begin{matrix} 0.51 \\ .020 \end{matrix}$	
DIMn. E (RAD.)	(1.17)/.046 REF.		(1.17)/.046 REF.		(0.76)/.030 REF.	
DIMn. F	(12.32)/.485 ± $\begin{matrix} 0.80 \\ .031 \end{matrix}$		(2.85)/.112 ± $\begin{matrix} 0.30 \\ .015 \end{matrix}$		(3.10)/.122 ± $\begin{matrix} 0.51 \\ .020 \end{matrix}$	
DIMn. G	(0.64)/.025		(0.76)/.030		(0.76)/.030	
DIMn. H	(0.51)/.020		(0.38)/.015		(0.38)/.015	
No. OF CCTS.	PART No.	ENG. No.	PART No.	ENG. No.	PART No.	ENG. No.
2	NT	A-4094- 2 BX(50 I)	NT	A-4094- 2 CB(50 I)	NT	A-4094- 2 MA(50 I)
3	↑	3 BX	NT	3 CB	↑	3 MA
4		4 BX	22-12-3042	4 CB		4 MA
5		5 BX	NT	5 CB		5 MA
6		6 BX	22-12-3062	6 CB		6 MA
7	↓	7 BX	NT	7 CB		7 MA
8	NT	8 BX	NT	8 CB		8 MA
9	22-12-3093	9 BX	NT	9 CB		9 MA
10	NT	10 BX	22-12-3102	10 CB		10 MA
11	NT	11 BX	NT	11 CB		11 MA
12	NT	12 BX	↑	12 CB		12 MA
13	NT	13 BX		13 CB		13 MA
14	22-12-3143	14 BX		14 CB		14 MA
15	22-12-3153	15 BX	↓	15 CB		15 MA
16	22-12-3163	16 BX	22-12-3162	16 CB		16 MA
17	NT	17 BX	NT	17 CB	38-00-4597	17 MA
18	↑	18 BX	NT	18 CB	NT	18 MA
19		19 BX	22-12-3192	19 CB	↑	19 MA
20		20 BX	NT	20 CB		20 MA
21		21 BX	↑	21 CB		21 MA
22		22 BX		22 CB		22 MA
23		23 BX		23 CB		23 MA
24		24 BX		24 CB		24 MA
25		25 BX		25 CB		25 MA
26		26 BX		26 CB		26 MA
27	↓	27 BX	↓	27 CB	↓	27 MA
28	NT	A-4094- 28 BX(50 I)	NT	A-4094- 28 CB(50 I)	NT	A-4094- 28 MA(50 I)
PLATING	(0.0005)/.00002 MIN. GOLD OVER (0.00076)/.00003 MIN. NICKEL		(0.0005)/.00002 MIN. GOLD OVER (0.00076)/.00003 MIN. NICKEL		(0.0005)/.00002 MIN. GOLD OVER (0.0008)/.00003 MIN. NICKEL	

NT = NOT TOOLED

FOR PREVIOUS DRAWING ISSUES SEE MRL.	J SEE SHEET 1.	LTR REVISIONS	DIMENSIONS SHOWN (METRIC) INCH UNLESS OTHERWISE SPECIFIED TOLERANCES ANGULAR ± 9	DRWG BY MCC	REVISE ONLY ON CAD SYSTEM	SHL REV.	
			3 PLACE # ± 0.01	INCH (METRIC)	CAD/CAM FILE NAME SAMRANZ DGN	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. & SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
			2 PLACE # ± 0.05 ± 0.25		TITLE WAFER ASSY, RT. ANGLE (2.54)/.100 CENTRES (0.64)/.025 SQ. PIN		
			1 PLACE # ± 0.30		MOLEX EUROPE	SHEET NO. DATE 20F 12/11/86	
DESIGN DIMENSION (PRIMARY) <input type="checkbox"/> IN. EQUIVALENT DIMENSION (SECONDARY) <input type="checkbox"/> MM <input type="checkbox"/> IN.			SCALE	PART NO. SEE CHART	DWG. NO. SDA-4094-N *	SIZE C	