

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0022121161](#)
Status: **Active**
Description: 2.50mm (.098") Pitch Header, Right Angle, Square Pin, 16 Circuits, Gold (Au) Plating

Documents:

[3D Model](#) [Product Specification PS-99020-0088 \(PDF\)](#)
[Drawing \(PDF\)](#) [RoHS Certificate of Compliance \(PDF\)](#)

Agency Certification

CSA LR19980
 UL E29179

General

Product Family PCB Headers
 Series [3094](#)
 Application Wire-to-Board
 Product Name N/A

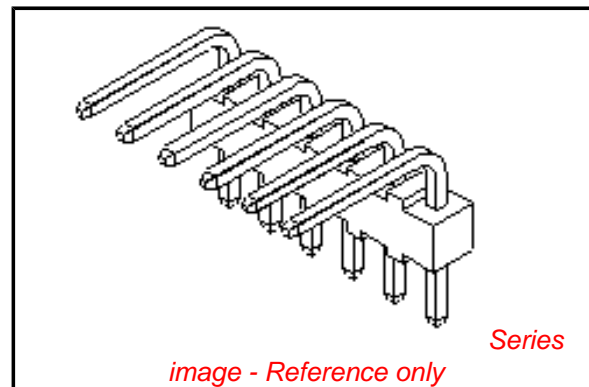
Physical

Breakaway No
 Circuits (Loaded) 16
 Circuits (maximum) 16
 Color - Resin Natural (White)
 Flammability 94V-0
 Glow-Wire Compliant No
 Lock to Mating Part None
 Material - Metal Brass
 Material - Plating Mating Gold
 Material - Plating Termination Gold
 Material - Resin Nylon
 Number of Rows 1
 Orientation Right Angle
 PC Tail Length (in) 0.134 In
 PC Tail Length (mm) 3.40 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) 0.098 In
 Pitch - Mating Interface (mm) 2.50 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
 Temperature Range - Operating -40°C to +105°C
 Termination Interface: Style Through Hole

Electrical

Current - Maximum per Contact 3A
 Voltage - Maximum 250V

Material Info



EU RoHS

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

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

[3094Series](#)

Mates With

[5051](#) , [7534](#)

Old Part Number

309416AG

Reference - Drawing Numbers

Product Specification

PS-99020-0088

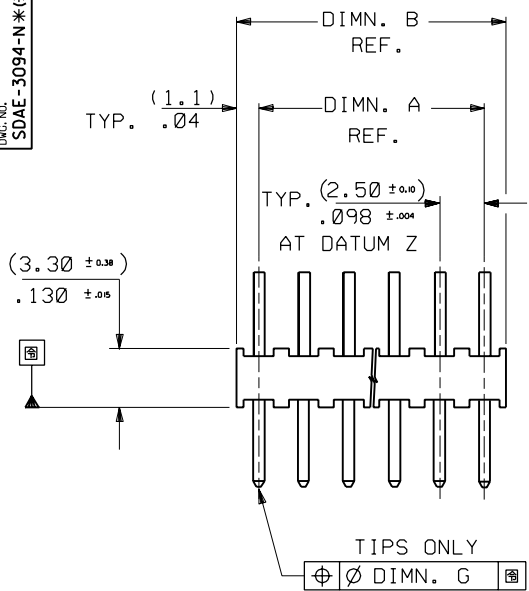
Sales Drawing

SDAE-3094-N*(*)

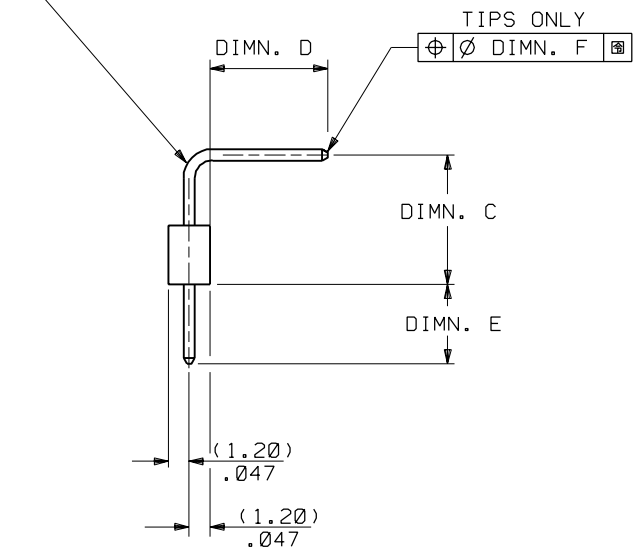
This document was generated on 04/15/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

PART NO. SEE CHART
 DWG. NO. SDAE-3094-N*(*)



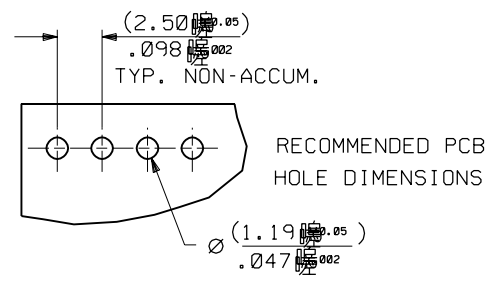
TERMINAL PIN, (0.64)/.025 SQ. FOR PART NOS, PLATING & MATERIAL SEE CHARTS



AE-3094-N*(*)
 PLATING CODE WHERE APPLICABLE
 NO. OF CKTS. VERSION

NOTES:

1. WAFER MATL. NYLON 6/6, 94V-0.
2. PIN PUSH OUT FORCE (0.907 KG)/2 LBS. MIN.
3. PARTS ARE STACKABLE END TO END AND SIDE TO SIDE ON (2.50)/.098 CENTRES.
4. FOR DIMENSIONS C,D,E,F & G SEE SUBSEQUENT SHEETS.
5. PINS MUST CONFORM TO MOLEX SOLDERABILITY SPEC. ES-152.



20	喉47.50 ± 0.25 1.870 ± 0.010	喉49.70 ± 0.16 1.957 ± 0.014
19	喉45.00 ± 0.20 1.772 ± 0.009	喉47.20 ± 0.33 1.858 ± 0.013
18	喉42.50 ± 0.20 1.673 ± 0.009	喉44.70 ± 0.10 1.760 ± 0.013
17	喉40.00 ± 0.20 1.575 ± 0.008	喉42.20 ± 0.10 1.662 ± 0.012
16	喉37.50 ± 0.20 1.476 ± 0.008	喉39.70 ± 0.10 1.563 ± 0.012
15	喉35.00 ± 0.20 1.378 ± 0.008	喉37.2 ± 0.10 1.462 ± 0.012
14	喉32.50 ± 0.20 1.280 ± 0.007	喉34.70 ± 0.10 1.367 ± 0.011
13	喉30.00 ± 0.18 1.181 ± 0.007	喉32.20 ± 0.10 1.268 ± 0.011
12	喉27.50 ± 0.18 1.083 ± 0.007	喉29.70 ± 0.10 1.169 ± 0.011
11	喉25.00 ± 0.15 .984 ± 0.006	喉27.20 ± 0.10 1.071 ± 0.010
10	喉22.50 ± 0.15 .886 ± 0.006	喉24.70 ± 0.10 .972 ± 0.010
9	喉20.00 ± 0.13 .787 ± 0.005	喉22.20 ± 0.10 .874 ± 0.009
8	喉17.50 ± 0.13 .689 ± 0.005	喉19.70 ± 0.10 .776 ± 0.009
7	喉15.00 ± 0.13 .591 ± 0.005	喉17.20 ± 0.10 .677 ± 0.009
6	喉12.50 ± 0.10 .492 ± 0.004	喉14.70 ± 0.10 .578 ± 0.009
5	喉10.00 ± 0.10 .394 ± 0.004	喉12.20 ± 0.10 .480 ± 0.008
4	喉7.50 ± 0.10 .295 ± 0.004	喉9.70 ± 0.10 .382 ± 0.008
3	喉5.00 ± 0.10 .197 ± 0.004	喉7.20 ± 0.10 .284 ± 0.008
2	喉2.50 ± 0.10 .098 ± 0.004	喉4.70 ± 0.10 .185 ± 0.008
NO. OF CCTS.	DIMN. A	DIMN. B

2	G
1	J
SH.	REV.

FOR PREVIOUS DRAWING ISSUES SEE MRI.

ECN E00230
 COLOUR CHANGE
 90.NOV.29 P.M.M

REVISIONS

DIMENSIONS SHOWN (METRIC) INCH	
UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 1/2°	
INCH	(METRIC)
3 PLACE ± .010	
2 PLACE ± .014	± 0.25
1 PLACE	± 0.35

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DESIGN DIMENSION (PRIMARY) (MM) IN.

EQUIVALENT DIMENSION (SECONDARY) (MM) IN.

DRWG BY MCC
 CHK'D BY
 APP'D BY
 SCALE 4:1

REVISE ONLY ON CAD SYSTEM

CAD/CAM FILENAME SA3094X1 DGN

TITLE
WAFER ASSY, RT. ANGLE (2.50)/.098 CENTRES (0.64)/.025 SQ. PIN

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. & SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

MOLEX MOLEX EUROPE SHEET NO. DATE 1 OF 2 9 / 2 / 88

PART NO. SEE CHART DWG NO. SDAE-3094-N*(*) SIZE B

PART NO. SEE CHART
 DWG. NO. SDAE-3094-N*(*)

PIN MATERIAL	
DIMn. C	± (0.51) .020
DIMn. D	± (1.02) .040
DIMn. E	± (0.51) .020
DIMn. F	
DIMn. G	
No. OF CCTS.	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
PLATING TO E.S. 88	

AE-3094-NA		
BRASS		
	(5.95)/.234	
	(7.50)/.295	
	(3.43)/.135	
	(0.76)/.030	
	(0.38)/.015	
PART No.	ENG. No.	
22-05-1021	AE-3094-	2 A
↑ 1031	↑	3 A
1041		4 A
1051		5 A
1061		6 A
1071		7 A
1081		8 A
1091		9 A
1101		10 A
1111		11 A
1121		12 A
1131		13 A
1141		14 A
1151		15 A
1161		16 A
1171		17 A
1181		18 A
1191		19 A
22-05-1201	AE-3094-	20 A
(0.005)/.0002 MIN. ELECTRO-TIN OVER (0.0025)/.0001 MIN. COPPER		

AE-3094-NAG		
BRASS		
	(5.95)/.234	
	(7.50)/.295	
	(3.43)/.135	
	(0.76)/.030	
	(0.38)/.015	
PART No.	ENG. No.	
22-12-1021	AE-3094-	2 AG
↑ 1031	↑	3 AG
1041		4 AG
1051		5 AG
1061		6 AG
1071		7 AG
1081		8 AG
1091		9 AG
1101		10 AG
1111		11 AG
1121		12 AG
1131		13 AG
1141		14 AG
1151		15 AG
1161		16 AG
1171		17 AG
1181		18 AG
1191		19 AG
22-12-1201	AE-3094-	20 AG
(0.0005)/.00002 MIN. GOLD OVER (0.00076)/.00003 MIN. NICKEL		

AE-3094-NF		
BRASS		
	(4.00)/.157	
	(9.86)/.388	
	(3.10)/.122	
	(0.76)/.030	
	(0.38)/.015	
PART No.	ENG. No.	
22-05-1029	AE-3094-	2 F
↑ 1039	↑	3 F
1049		4 F
1059		5 F
1069		6 F
1079		7 F
1089		8 F
1099		9 F
1109		10 F
1119		11 F
1129		12 F
1139		13 F
1149		14 F
1159		15 F
1169		16 F
1179		17 F
1189		18 F
1199		19 F
22-05-1209	AE-3094-	20 F
(0.005)/.0002 MIN. ELECTRO-TIN OVER (0.0025)/.0001 MIN. COPPER		

AE-3094-NT(102)		
PHOS. BRONZE		
	(4.00)/.157 ± (0.38) .015	
	(15.68)/.617	
	(3.50)/.138	
	(0.76)/.030	
	(0.38)/.015	
PART No.	ENG. No.	
NOT TOOLED	AE-3094-	2 T (102)
38-00-1446	↑	3 T ↑
NOT TOOLED		4 T
38-00-1447		5 T
38-00-1448		6 T
38-00-1449		7 T
NOT TOOLED		8 T
NOT TOOLED		9 T
38-00-1450		10 T
NOT TOOLED		11 T
↑		12 T
		13 T
		14 T
		15 T
		16 T
		17 T
		18 T
↓		19 T ↓
NOT TOOLED	AE-3094-	20 T (102)
(0.005)/.0002 MIN. ELECTRO-TIN OVER (0.0025)/.0001 MIN. COPPER		

FOR PREVIOUS DRAWING ISSUES SEE MRI.

G SEE SHEET I.

LTR REVISIONS

3 PLACE ± .010	
2 PLACE ± .014	± 0.25
1 PLACE	± 0.35

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DESIGN DIMENSION (PRIMARY) IN. (MM)

EQUIVALENT DIMENSION (SECONDARY) IN. (MM)

DRWG BY MCC

CHK'D BY

APP'D BY

SCALE

REVISE ONLY ON CAD SYSTEM		SH.	REV.
CAD/CAM FILENAME SA3094X2 DGN		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. & SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	
TITLE WAFER ASSY, RT. ANGLE (2.50)/.098 CENTRES (0.64)/.025 SQ. PIN			
MOLEX EUROPE		SHEET NO.	DATE
PART NO. SEE CHART		20F2	5 / 2 / 88
DWG NO. SDAE-3094-N*(*)		SIZE	B