

FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 2 to 20 circuits
- 0.64 mm (.025") square wire pins
- Stackable side-to-side and end-to-end

Reference Information

Packaging: Bulk
 UL File No.: E29179
 CSA File No.: LR19980
 Mates With: [5051](#) and [7534](#)
 Designed In: Millimeters

Electrical

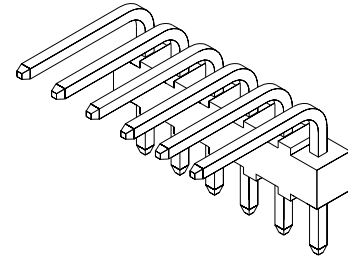
Voltage: 250V
 Current: 3.0A
 Contact Resistance: 20mΩ max.
 Dielectric Withstanding Voltage: 1000V AC
 Insulation Resistance: 1000 MΩ min.

Physical

Housing: 6/6 nylon, UL 94V-0
 Contact: Brass
 Plating: Tin
 Operating Temperature: -40 to +105°C

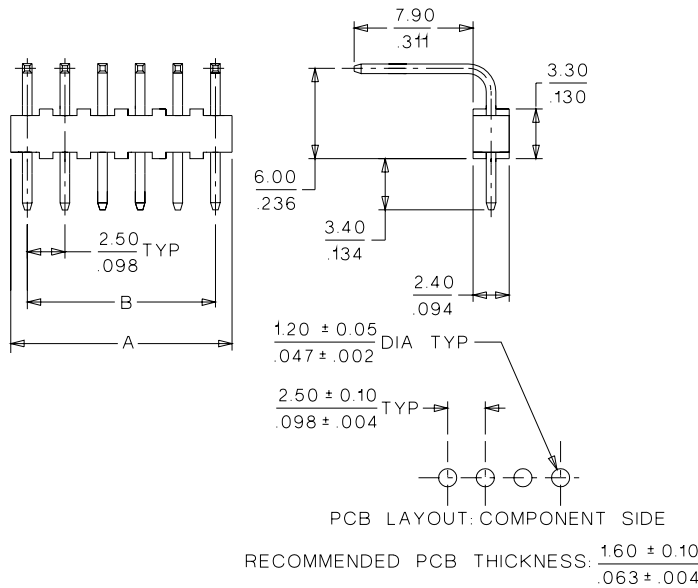
molex® 2.50mm (.098") Pitch Header

3094-NA Right Angle Square Pin



B
 2.00 to 2.50mm (.079 to .098") Pitch

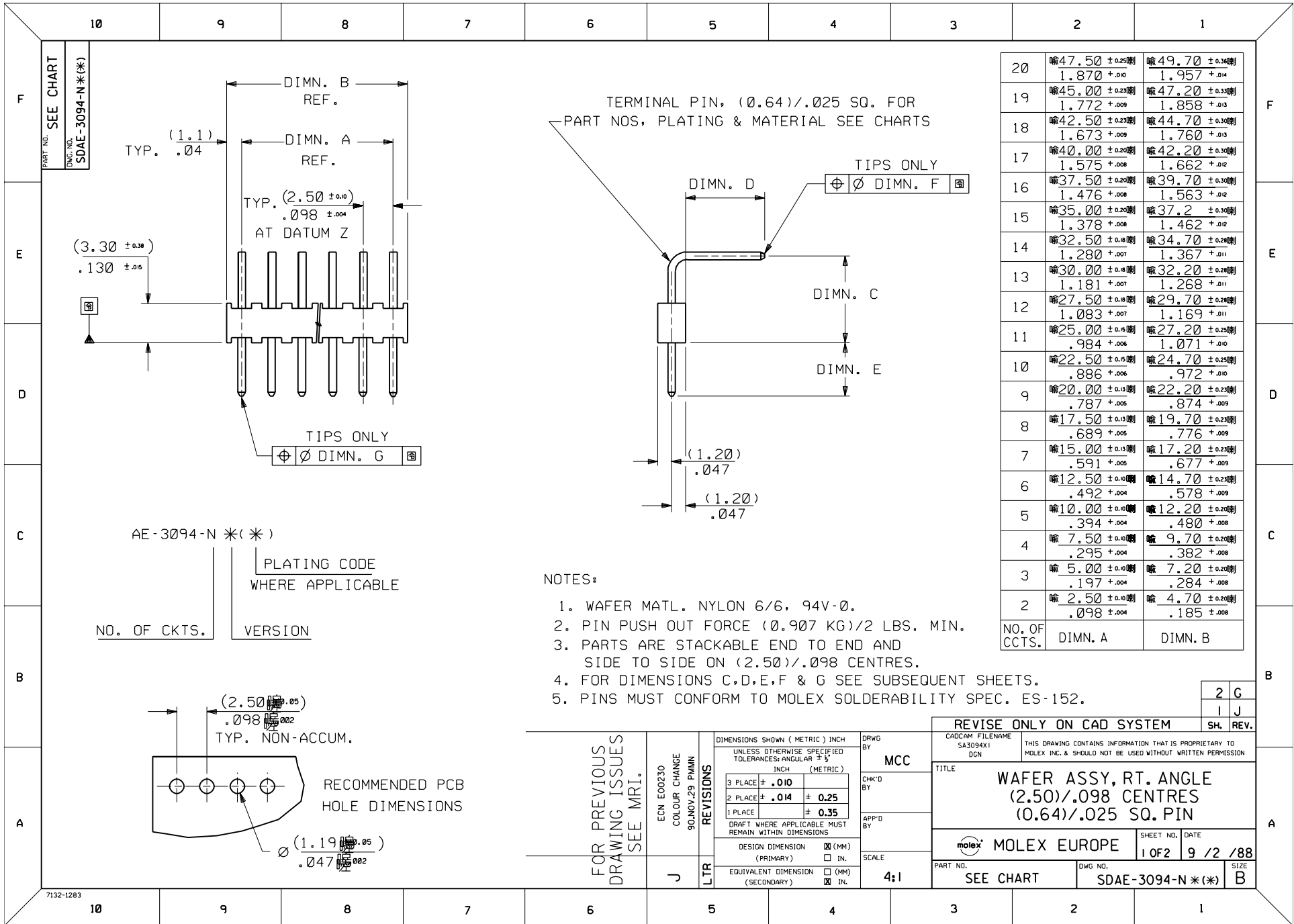
CATALOG DRAWING (FOR REFERENCE ONLY)



ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension	
	Tin	Gold	A	B
2	22-05-1021	22-12-1021	4.90 (.192)	2.50 (.098)
3	22-05-1031	22-12-1031	7.20 (.284)	5.00 (.196)
4	22-05-1041	22-12-1041	9.70 (.382)	7.50 (.295)
5	22-05-1051	22-12-1051	12.20 (.480)	10.00 (.393)
6	22-05-1061	22-12-1061	14.70 (.578)	12.50 (.492)
7	22-05-1071	22-12-1071	17.20 (.677)	15.00 (.590)
8	22-05-1081	22-12-1081	19.70 (.776)	17.50 (.688)
9	22-05-1091	22-12-1091	22.20 (.874)	20.00 (.787)
10	22-05-1101	22-12-1101	24.70 (.972)	22.50 (.885)
11	22-05-1111	22-12-1111	27.20 (1.071)	25.00 (.984)

Circuits	Order No.		Dimension	
	Tin	Gold	A	B
12	22-05-1121	22-12-1121	29.70 (1.169)	27.50 (1.082)
13	22-05-1131	22-12-1131	32.20 (1.268)	30.00 (1.181)
14	22-05-1141	22-12-1141	34.70 (1.367)	32.50 (1.279)
15	22-05-1151	22-12-1151	37.20 (1.462)	35.00 (1.377)
16	22-05-1161	22-12-1161	39.70 (1.563)	37.50 (1.476)
17	22-05-1171	22-12-1171	42.20 (1.662)	40.00 (1.574)
18	22-05-1181	22-12-1181	44.70 (1.760)	42.50 (1.673)
19	22-05-1191	22-12-1191	47.20 (1.858)	45.00 (1.771)
20	22-05-1201	22-12-1201	49.70 (1.957)	47.50 (1.870)



20	唵47.50 ± 0.25唵 1.870 ± 0.10	唵49.70 ± 0.30唵 1.957 ± 0.14
19	唵45.00 ± 0.20唵 1.772 ± 0.09	唵47.20 ± 0.30唵 1.858 ± 0.13
18	唵42.50 ± 0.20唵 1.673 ± 0.09	唵44.70 ± 0.30唵 1.760 ± 0.13
17	唵40.00 ± 0.20唵 1.575 ± 0.08	唵42.20 ± 0.30唵 1.662 ± 0.12
16	唵37.50 ± 0.20唵 1.476 ± 0.08	唵39.70 ± 0.30唵 1.563 ± 0.12
15	唵35.00 ± 0.20唵 1.378 ± 0.08	唵37.2 ± 0.30唵 1.462 ± 0.12
14	唵32.50 ± 0.18唵 1.280 ± 0.07	唵34.70 ± 0.28唵 1.367 ± 0.11
13	唵30.00 ± 0.18唵 1.181 ± 0.07	唵32.20 ± 0.28唵 1.268 ± 0.11
12	唵27.50 ± 0.18唵 1.083 ± 0.07	唵29.70 ± 0.28唵 1.169 ± 0.11
11	唵25.00 ± 0.15唵 .984 ± 0.06	唵27.20 ± 0.25唵 1.071 ± 0.10
10	唵22.50 ± 0.15唵 .886 ± 0.06	唵24.70 ± 0.25唵 .972 ± 0.10
9	唵20.00 ± 0.13唵 .787 ± 0.05	唵22.20 ± 0.23唵 .874 ± 0.09
8	唵17.50 ± 0.13唵 .689 ± 0.05	唵19.70 ± 0.23唵 .776 ± 0.09
7	唵15.00 ± 0.13唵 .591 ± 0.05	唵17.20 ± 0.23唵 .677 ± 0.09
6	唵12.50 ± 0.10唵 .492 ± 0.04	唵14.70 ± 0.23唵 .578 ± 0.09
5	唵10.00 ± 0.10唵 .394 ± 0.04	唵12.20 ± 0.20唵 .480 ± 0.08
4	唵 7.50 ± 0.10唵 .295 ± 0.04	唵 9.70 ± 0.20唵 .382 ± 0.08
3	唵 5.00 ± 0.10唵 .197 ± 0.04	唵 7.20 ± 0.20唵 .284 ± 0.08
2	唵 2.50 ± 0.10唵 .098 ± 0.04	唵 4.70 ± 0.20唵 .185 ± 0.08
NO. OF CCTS.	DIMN. A	DIMN. B

- 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.

FOR PREVIOUS DRAWING ISSUES SEE MRI.

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

REVISIONS

INCH	(METRIC)
3 PLACE ± .010	± 0.25
2 PLACE ± .014	± 0.35
1 PLACE	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DESIGN DIMENSION (PRIMARY)	<input checked="" type="checkbox"/> (MM)	<input type="checkbox"/> IN.
EQUIVALENT DIMENSION (SECONDARY)	<input type="checkbox"/> (MM)	<input checked="" type="checkbox"/> IN.

DRWG BY: MCC

CHK'D BY:

APP'D BY:

SCALE: 4:1

REVISE ONLY ON CAD SYSTEM

CAD/CAM FILENAME: SA3094X1 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: 1 OF 2 9 / 2 / 88

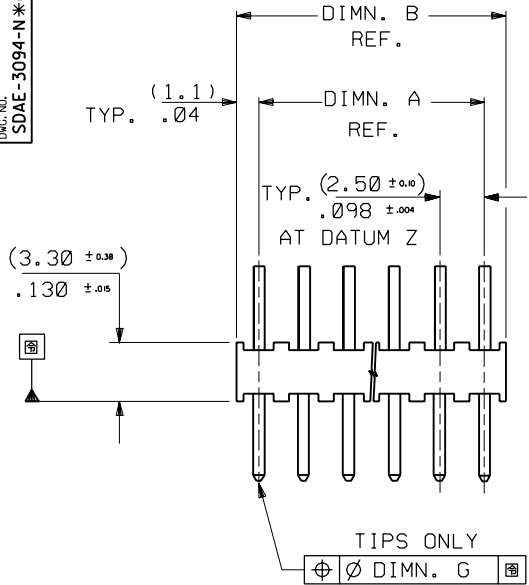
PART NO. SEE CHART

DWG NO. SDAE-3094-N * (*)

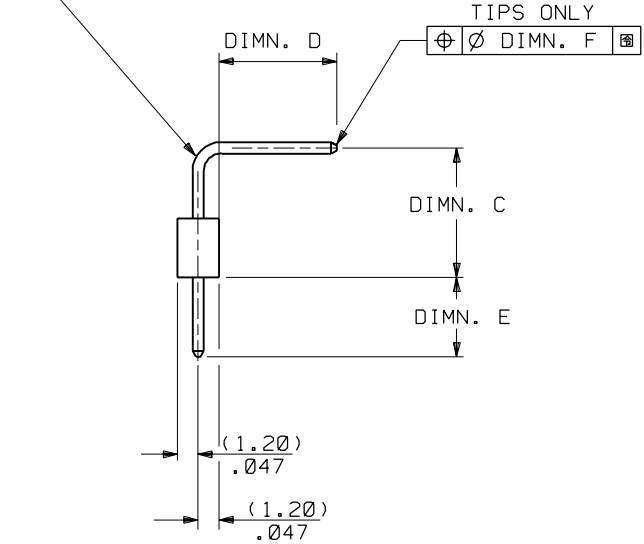
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F</td> <td></td> <td></td> <td>(0.76)/.030</td> <td>(0.76)/.030</td> <td>(0.76)/.030</td> <td>(0.76)/.030</td> <td>(0.76)/.030</td> <td>(0.76)/.030</td> <td>(0.76)/.030</td> <td>(0.76)/.030</td> </tr> <tr> <td>DIMn. G</td> <td></td> <td></td> <td>(0.38)/.015</td> <td>(0.38)/.015</td> <td>(0.38)/.015</td> <td>(0.38)/.015</td> <td>(0.38)/.015</td> <td>(0.38)/.015</td> <td>(0.38)/.015</td> <td>(0.38)/.015</td> </tr> <tr> <td colspan="2">No. OF CCTS.</td> <td colspan="2">PART No.</td> <td colspan="2">ENG. No.</td> <td colspan="2">PART No.</td> <td colspan="2">ENG. No.</td> <td colspan="2">PART No.</td> <td colspan="2">ENG. 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ELECTRO-TIN OVER (0.0025)/.0001 MIN. COPPER</td> <td colspan="2">(0.005)/.0002 MIN. ELECTRO-TIN OVER (0.0025)/.0001 MIN. COPPER</td> <td colspan="2">(0.0005)/.00002 MIN. GOLD OVER (0.00076)/.00003 MIN. NICKEL</td> <td colspan="2">(0.0005)/.00002 MIN. ELECTRO-TIN OVER (0.0025)/.0001 MIN. COPPER</td> <td colspan="2">(0.005)/.0002 MIN. ELECTRO-TIN OVER (0.0025)/.0001 MIN. COPPER</td> <td colspan="2">(0.005)/.0002 MIN. ELECTRO-TIN OVER (0.0025)/.0001 MIN. COPPER</td> </tr> </table>										PIN MATERIAL	AE-3094-NA										BRASS										DIMn. C	±	(0.51) .020	(5.95)/.234	(5.95)/.234	(5.95)/.234	(5.95)/.234	(4.00)/.157	(4.00)/.157 ±	(0.38) .015	(15.68)/.617	DIMn. D	±	(1.02) .040	(7.50)/.295	(7.50)/.295	(7.50)/.295	(7.50)/.295	(9.86)/.388	(9.86)/.388	(9.86)/.388	(15.68)/.617	DIMn. E	±	(0.51) .020	(3.43)/.135	(3.43)/.135	(3.43)/.135	(3.43)/.135	(3.10)/.122	(3.10)/.122	(3.10)/.122	(3.50)/.138	DIMn. F			(0.76)/.030	(0.76)/.030	(0.76)/.030	(0.76)/.030	(0.76)/.030	(0.76)/.030	(0.76)/.030	(0.76)/.030	DIMn. G			(0.38)/.015	(0.38)/.015	(0.38)/.015	(0.38)/.015	(0.38)/.015	(0.38)/.015	(0.38)/.015	(0.38)/.015	No. OF CCTS.		PART No.		ENG. No.		PART No.		ENG. No.		PART No.		ENG. No.		2		22-05-1021		AE-3094- 2 A		22-12-1021		AE-3094- 2 AG		22-05-1029		AE-3094- 2 F		3		↑ 1031		↑ 3 A		↑ 1031		↑ 3 AG		↑ 1039		↑ 3 F		4		1041		4 A		1041		4 AG		1049		4 F		5		1051		5 A		1051		5 AG		1059		5 F		6		1061		6 A		1061		6 AG		1069		6 F		7		1071		7 A		1071		7 AG		1079		7 F		8		1081		8 A		1081		8 AG		1089		8 F		9		1091		9 A		1091		9 AG		1099		9 F		10		1101		10 A		1101		10 AG		1109		10 F		11		1111		11 A		1111		11 AG		1119		11 F		12		1121		12 A		1121		12 AG		1129		12 F		13		1131		13 A		1131		13 AG		1139		13 F		14		1141		14 A		1141		14 AG		1149		14 F		15		1151		15 A		1151		15 AG		1159		15 F		16		1161		16 A		1161		16 AG		1169		16 F		17		1171		17 A		1171		17 AG		1179		17 F		18		1181		18 A		1181		18 AG		1189		18 F		19		↓ 1191		↓ 19 A		↓ 1191		↓ 19 AG		↓ 1199		↓ 19 F		20		22-05-1201		AE-3094- 20 A		22-12-1201		AE-3094- 20 AG		22-05-1209		AE-3094- 20 F		PLATING TO E.S. 88		(0.005)/.0002 MIN. ELECTRO-TIN OVER (0.0025)/.0001 MIN. COPPER		(0.005)/.0002 MIN. 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	DIMn. F			(0.76)/.030	(0.76)/.030	(0.76)/.030	(0.76)/.030	(0.76)/.030	(0.76)/.030	(0.76)/.030		(0.76)/.030																																																																																																																																																																																																																																																																																																																																																																																
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PLATING TO E.S. 88		(0.005)/.0002 MIN. ELECTRO-TIN OVER (0.0025)/.0001 MIN. COPPER		(0.005)/.0002 MIN. ELECTRO-TIN OVER (0.0025)/.0001 MIN. COPPER		(0.0005)/.00002 MIN. GOLD OVER (0.00076)/.00003 MIN. NICKEL		(0.0005)/.00002 MIN. ELECTRO-TIN OVER (0.0025)/.0001 MIN. COPPER		(0.005)/.0002 MIN. ELECTRO-TIN OVER (0.0025)/.0001 MIN. COPPER		(0.005)/.0002 MIN. ELECTRO-TIN OVER (0.0025)/.0001 MIN. COPPER																																																																																																																																																																																																																																																																																																																																																																																
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A	<table border="1"> <tr> <td rowspan="2">FOR PREVIOUS DRAWING ISSUES SEE MRI.</td> <td rowspan="2">LTR</td> <td rowspan="2">REVISIONS</td> <td rowspan="2">G SEE SHEET 1.</td> <td colspan="2">DIMENSIONS SHOWN (METRIC) INCH</td> <td rowspan="2">DRWG BY MCC</td> <td rowspan="2">CHK'D BY</td> <td rowspan="2">APP'D BY</td> <td colspan="2">REVISE ONLY ON CAD SYSTEM</td> <td rowspan="2">SH. REV.</td> </tr> <tr> <td colspan="2">UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 1/2</td> <td colspan="2">CAD/CAM FILENAME SA3094X2 DCN</td> <td colspan="2">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. & SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td> </tr> <tr> <td colspan="2"></td> <td colspan="2">INCH (METRIC)</td> <td colspan="2">3 PLACE ± .010 ± 0.25</td> <td colspan="2">TITLE</td> <td colspan="2">WAFER ASSY, RT. ANGLE (2.50)/.098 CENTRES (0.64)/.025 SQ. PIN</td> <td colspan="2">SHEET NO. DATE</td> </tr> <tr> <td colspan="2"></td> <td colspan="2">1 PLACE ± 0.35</td> <td colspan="2">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td> <td colspan="2">SCALE</td> <td colspan="2">MOLEX EUROPE</td> <td colspan="2">20F2 5 /2 /88</td> </tr> <tr> <td colspan="2"></td> <td colspan="2">DESIGN DIMENSION (PRIMARY) <input checked="" type="checkbox"/> (MM) <input type="checkbox"/> IN.</td> <td colspan="2">EQUIVALENT DIMENSION (SECONDARY) <input type="checkbox"/> (MM) <input checked="" type="checkbox"/> IN.</td> <td colspan="2"></td> <td colspan="2">PART NO. SEE CHART</td> <td colspan="2">DWC. NO. SDAE-3094-N*(*)</td> </tr> <tr> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2">SIZE B</td> </tr> </table>										FOR PREVIOUS DRAWING ISSUES SEE MRI.	LTR	REVISIONS	G SEE SHEET 1.	DIMENSIONS SHOWN (METRIC) INCH		DRWG BY MCC	CHK'D BY	APP'D BY	REVISE ONLY ON CAD SYSTEM		SH. REV.	UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± 1/2		CAD/CAM FILENAME SA3094X2 DCN		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. & SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				INCH (METRIC)		3 PLACE ± .010 ± 0.25		TITLE		WAFER ASSY, RT. ANGLE (2.50)/.098 CENTRES (0.64)/.025 SQ. PIN		SHEET NO. DATE				1 PLACE ± 0.35		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SCALE		MOLEX EUROPE		20F2 5 /2 /88				DESIGN DIMENSION (PRIMARY) <input checked="" type="checkbox"/> (MM) <input type="checkbox"/> IN.		EQUIVALENT DIMENSION (SECONDARY) <input type="checkbox"/> (MM) <input checked="" type="checkbox"/> IN.				PART NO. SEE CHART		DWC. NO. SDAE-3094-N*(*)												SIZE B																																																																																																																																																																																																																																																																																																																	
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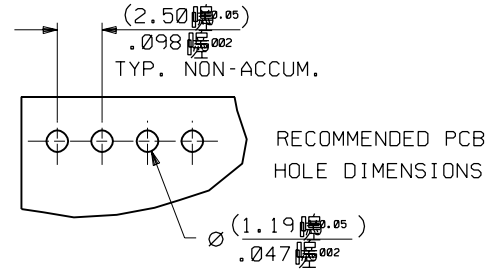
TERMINAL PIN, (0.64) / .025 SQ. FOR PART NOS, PLATING & MATERIAL SEE CHARTS



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.	

REVISE ONLY ON CAD SYSTEM

CAD/CAM FILENAME: SA3094X1 DGN

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

MOLEX EUROPE

SHEET NO. DATE: 1 OF 2 9 / 2 / 88

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

FOR PREVIOUS DRAWING ISSUES SEE MRI.

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

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

