

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0010081071

Status:

Active

Overview:

kk

Description:

5.08mm (.200") Pitch KK® Header, Vertical, Round Pin, 7 Circuits, Tin (Sn) Plating, Pin Length 19.05mm (.750")

Documents:

3D Model

Drawing (PDF)

Product Specification PS-99020-0087 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification

CSA

LR19980

UL

E29179

General

Product Family

PCB Headers

Series

3003

Application

Board-to-Board, Wire-to-Board

Overview

kk

Product Name

KK®

Physical

Breakaway

No

Circuits (Loaded)

7

Circuits (maximum)

7

Color - Resin

Natural

Durability (mating cycles max)

25

First Mate / Last Break

No

Flammability

94V-2

Glow-Wire Compliant

No

Guide to Mating Part

No

Keying to Mating Part

None

Lock to Mating Part

None

Material - Metal

Brass

Material - Plating Mating

Tin

Material - Plating Termination

Tin

Material - Resin

Nylon

Number of Rows

1

Orientation

Vertical

PC Tail Length (in)

0.155 In

PC Tail Length (mm)

3.94 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)

0.200 In

Pitch - Mating Interface (mm)

5.08 mm

Pitch - Term. Interface (in)

0.200 In

Pitch - Term. Interface (mm)

5.08 mm

Plating min: Mating (µin)

200

Plating min: Mating (µm)

5

Plating min: Termination (µin)

200

Plating min: Termination (µm)

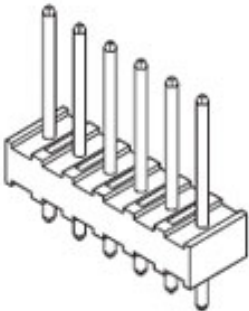
5

Polarized to Mating Part

No

Polarized to PCB

No



Series

image - Reference only

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Not Reviewed

Halogen-Free

Status

Not Reviewed

China RoHS



Need more information on product environmental compliance?

Email [productcompliance@molex.com](mailto: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

3003Series

Mates With

KK® Crimp Housing 3001 , 5058. 3002 KK® PC Board Connector

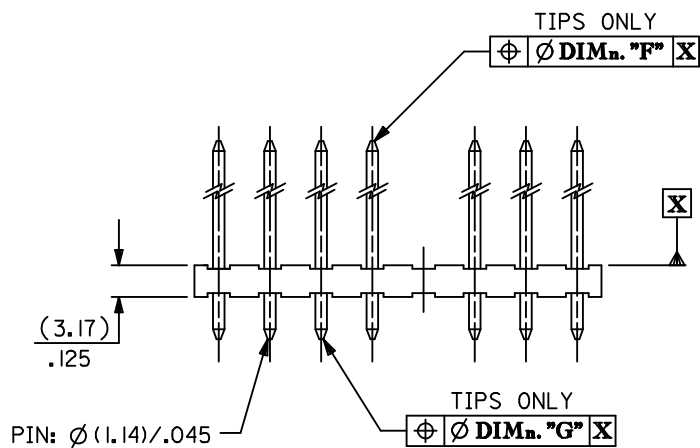
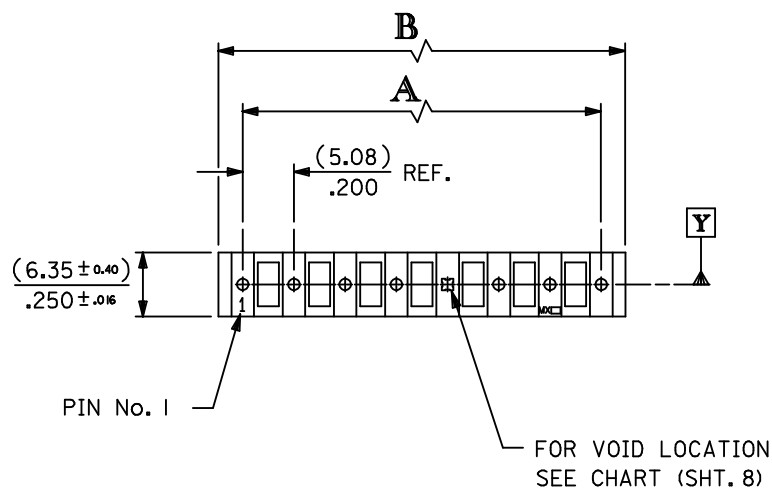
|                                    |                        |
|------------------------------------|------------------------|
| Shrouded                           | No                     |
| Stackable                          | No                     |
| Surface Mount Compatible (SMC)     | No                     |
| Temperature Range - Operating      | 0°C to +50°C           |
| Termination Interface: Style       | Through Hole           |
| <b>Electrical</b>                  |                        |
| Current - Maximum per Contact      | 7A                     |
| Voltage - Maximum                  | 250V                   |
| <b>Solder Process Data</b>         |                        |
| Lead-free Process Capability       | Wave Capable (TH only) |
| <b>Material Info</b>               |                        |
| Old Part Number                    | 3003-07A               |
| <b>Reference - Drawing Numbers</b> |                        |
| Product Specification              | PS-99020-0087          |
| Sales Drawing                      | SDAE-3003-N*           |

This document was generated on 05/24/2010

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SEE CHART

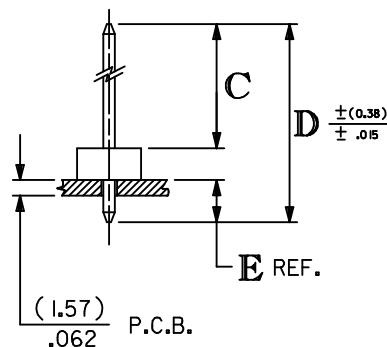
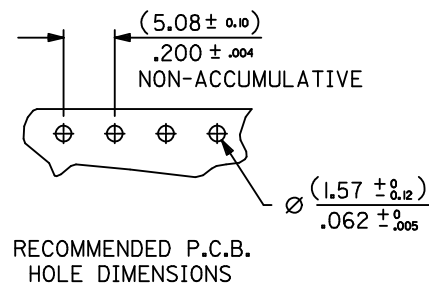
SDAE-3003-N\*



3003-N \* - \*

BASE No.      VOID CODE

No. OF CCTS.      VERSION



## NOTES:

1. MATERIAL: WAFER, NYLON, 94V-2, COLOUR - NATURAL PINS, BRASS (FOR PLATING SEE CHARTS)
2. FOR DIMns. 'A','B','C','D','E','F' AND VERSIONS, SEE CHARTS ON SHEET 2 & SUBSEQUENT SHEETS.
3. FOR VERSIONS WITH VOIDS SEE SHEET 8.
4. PIN PUSH OUT FORCE: (1.36Kg)/3lbs MIN.
5. PIN MUST MEET MOLEX SOLDERABILITY SPEC. ES-152.
6. MAX BOW (0.38)/.015 OVER (25.4)/1.00

ADD PART NO SHT 7

EC NO: E2009-0320 2009/04/03

DRWN: BMAGUIRE 2009/04/03

CHKD: 2009/04/06

APPR: BMAGUIRE 2009/04/06

REV

BM

QUALITY SYMBOLS

▽=0

▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

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

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE

MM ONLY

DRAWN BY      DATE

CHECKED BY      DATE

APPROVED BY      DATE

MATERIAL NO.

SIZE A3

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

| No OF CCTS. | DIMn. A                          | DIMn. B                           |
|-------------|----------------------------------|-----------------------------------|
| 2           | ( 5.08 ± 0.05 )<br>.200 ± .002   | ( 9.91 ± 0.15 )<br>.390 ± .006    |
| 3           | ( 10.16 ± 0.08 )<br>.400 ± .003  | ( 14.99 ± 0.15 )<br>.590 ± .006   |
| 4           | ( 15.24 ± 0.08 )<br>.600 ± .003  | ( 20.07 ± 0.18 )<br>.790 ± .007   |
| 5           | ( 20.32 ± 0.08 )<br>.800 ± .003  | ( 25.15 ± 0.20 )<br>.990 ± .008   |
| 6           | ( 25.40 ± 0.10 )<br>1.000 ± .004 | ( 30.23 ± 0.23 )<br>1.190 ± .009  |
| 7           | ( 30.48 ± 0.13 )<br>1.200 ± .005 | ( 35.31 ± 0.25 )<br>1.390 ± .010  |
| 8           | ( 35.56 ± 0.20 )<br>1.400 ± .008 | ( 40.39 ± 0.28 )<br>1.590 ± .011  |
| 9           | ( 40.64 ± 0.20 )<br>1.600 ± .008 | ( 45.47 ± 0.30 )<br>1.790 ± .012  |
| 10          | ( 45.72 ± 0.20 )<br>1.800 ± .008 | ( 50.55 ± 0.30 )<br>1.990 ± .012  |
| 11          | ( 50.80 ± 0.20 )<br>2.000 ± .008 | ( 55.63 ± 0.33 )<br>2.190 ± .013  |
| 12          | ( 55.88 ± 0.25 )<br>2.200 ± .010 | ( 60.71 ± 0.33 )<br>2.390 ± .013  |
| 13          | ( 60.96 ± 0.25 )<br>2.400 ± .010 | ( 65.79 ± 0.36 )<br>2.590 ± .014  |
| 14          | ( 66.04 ± 0.25 )<br>2.600 ± .010 | ( 70.87 ± 0.36 )<br>2.790 ± .014  |
| 15          | ( 71.12 ± 0.35 )<br>2.800 ± .014 | ( 75.95 ± 0.42 )<br>2.990 ± .017  |
| 16          | ( 76.20 ± 0.35 )<br>3.000 ± .014 | ( 81.03 ± 0.42 )<br>3.190 ± .017  |
| 17          | ( 81.28 ± 0.40 )<br>3.200 ± .016 | ( 86.11 ± 0.51 )<br>3.390 ± .020  |
| 18          | ( 86.36 ± 0.40 )<br>3.400 ± .016 | ( 91.19 ± 0.53 )<br>3.590 ± .021  |
| 19          | ( 91.44 ± 0.50 )<br>3.600 ± .020 | ( 96.27 ± 0.53 )<br>3.790 ± .021  |
| 20          | ( 96.52 ± 0.50 )<br>3.800 ± .020 | ( 101.35 ± 0.53 )<br>3.990 ± .021 |

SEE CHART

SDAE-3003-N\*

INDEX: FOR FULL DIMENSIONS SEE RELEVANT SHEET.

| ENG. No.        | PLATING | DIM. C          | DIM. D          | SHT. No. |
|-----------------|---------|-----------------|-----------------|----------|
| AE-3003-NA      | (102)   |                 |                 | 3        |
| AE-3003-NAG     | (501)   | (11.94) / .470  | (19.05) / .750  | 6        |
| AE-3003-NA(503) | (503)   |                 |                 | 6        |
| AE-3003-NB      | (102)   | (16.69) / .657  | (23.80) / .937  | 3        |
| AE-3003-NC      | (102)   | (23.04) / .907  | (30.48) / 1.200 | 3        |
| AE-3003-NCG     | (501)   |                 |                 | 6        |
| AE-3003-ND      | (102)   | (27.81) / 1.095 | (34.92) / 1.375 | 3        |
| AE-3003-NDG     | (501)   |                 |                 | 6        |
| AE-3003-NF      | (102)   | (32.56) / 1.282 | (39.68) / 1.562 | 3        |
| AE-3003-NFG     | (501)   |                 |                 | 6        |
| AE-3003-NI      | (102)   | (13.51) / .532  | (20.32) / .800  | 4        |
| AE-3003-NJ      | (102)   | (21.46) / .845  | (28.58) / 1.125 | 4        |
| AE-3003-NK      | (102)   | (18.29) / .720  | (25.40) / 1.000 | 4        |
| AE-3003-NS      | (501)   |                 |                 | 7        |
| AE-3003-NM      | (102)   | (11.89) / .468  | (23.80) / .937  | 4        |
| AE-3003-NU      | (102)   | (11.18) / .440  | (17.45) / .687  | 4        |
| AE-3003-NV      | (102)   | (11.94) / .470  | (18.29) / .720  | 5        |
| AE-3003-NY      | (102)   | (10.90) / .430  | (17.45) / .687  | 5        |
|                 |         |                 |                 |          |

FOR VOID VERSIONS SEE SHEET 8.

DOCUMENT ERROR

EC NO: E2009-0513

DRWN:BMAGUIRE

CHKD:

APPR:BMAGUIRE

REV

BM

QUALITY SYMBOLS

DESCRIPTION

▽=0

◻=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

mm

INCH

4 PLACES

3 PLACES

2 PLACES

1 PLACE

ANGULAR ±---°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE

MM ONLY

DRAWN BY

DATE

CHECKED BY

DATE

APPROVED BY

DATE

MATERIAL NO.

SEE CHART

SIZE

A3

SCALE

1:1

DESIGN UNITS

METRIC

THIRD ANGLE PROJECTION

TITLE

5.08 MM KK HDR VT RPIN

molex

MOLEX INCORPORATED

DOCUMENT NO.

SDAE-3003-N\*

SHEET NO.

2 OF 08

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

FOR PREVIOUS  
DRAWING ISSUES  
SEE MRI.

|                                                                                                                                                                                              |                                         |                                                                                                                                                                                                                                                                             |                               |                                                                 |                                          |                             |                              |                                                                                                                     |       |                                                                                                    |       |           |      |  |       |          |  |                        |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------|------------------------------------------|-----------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------------------|-------|-----------|------|--|-------|----------|--|------------------------|--|--|--|
| BK SEE SHEET 1.                                                                                                                                                                              |                                         | REVISIONS                                                                                                                                                                                                                                                                   |                               | THIRD ANGLE PROJECTION                                          |                                          | REVISE ONLY ON CAD SYSTEM   |                              | SH.                                                                                                                 | REV.  |                                                                                                    |       |           |      |  |       |          |  |                        |  |  |  |
|                                                                                                                                                                                              |                                         |                                                                                                                                                                                                                                                                             |                               | DIMENSIONS SHOWN ( METRIC ) INCH                                |                                          | CADCAM FILENAME<br>SA3003X3 |                              | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. & SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |       |                                                                                                    |       |           |      |  |       |          |  |                        |  |  |  |
|                                                                                                                                                                                              |                                         |                                                                                                                                                                                                                                                                             |                               | UNLESS OTHERWISE SPECIFIED<br>TOLERANCES: ANGULAR $\pm 2^\circ$ |                                          | DCN                         |                              |                                                                                                                     |       |                                                                                                    |       |           |      |  |       |          |  |                        |  |  |  |
|                                                                                                                                                                                              |                                         |                                                                                                                                                                                                                                                                             |                               | INCH (METRIC)                                                   |                                          | GCH                         |                              | TITLE                                                                                                               |       |                                                                                                    |       |           |      |  |       |          |  |                        |  |  |  |
| LTR                                                                                                                                                                                          |                                         | <table border="1"> <tr> <td>3 PLACE</td> <td><math>\pm</math></td> <td>.</td> <td></td> </tr> <tr> <td>2 PLACE</td> <td><math>\pm</math></td> <td>.</td> <td><math>\pm</math></td> </tr> <tr> <td>1 PLACE</td> <td></td> <td></td> <td><math>\pm</math></td> </tr> </table> |                               | 3 PLACE                                                         | $\pm$                                    | .                           |                              | 2 PLACE                                                                                                             | $\pm$ | .                                                                                                  | $\pm$ | 1 PLACE   |      |  | $\pm$ | CHK'D BY |  | 5.08 mm KK Hdr Vt RPIn |  |  |  |
|                                                                                                                                                                                              |                                         |                                                                                                                                                                                                                                                                             |                               | 3 PLACE                                                         | $\pm$                                    | .                           |                              |                                                                                                                     |       |                                                                                                    |       |           |      |  |       |          |  |                        |  |  |  |
|                                                                                                                                                                                              |                                         |                                                                                                                                                                                                                                                                             |                               | 2 PLACE                                                         | $\pm$                                    | .                           | $\pm$                        |                                                                                                                     |       |                                                                                                    |       |           |      |  |       |          |  |                        |  |  |  |
|                                                                                                                                                                                              |                                         |                                                                                                                                                                                                                                                                             |                               | 1 PLACE                                                         |                                          |                             | $\pm$                        |                                                                                                                     |       |                                                                                                    |       |           |      |  |       |          |  |                        |  |  |  |
| APP'D BY                                                                                                                                                                                     |                                         |                                                                                                                                                                                                                                                                             |                               |                                                                 |                                          |                             |                              |                                                                                                                     |       |                                                                                                    |       |           |      |  |       |          |  |                        |  |  |  |
| DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS                                                                                                                                      |                                         |                                                                                                                                                                                                                                                                             |                               |                                                                 |                                          |                             |                              |                                                                                                                     |       |                                                                                                    |       |           |      |  |       |          |  |                        |  |  |  |
| LTR                                                                                                                                                                                          |                                         | <table border="1"> <tr> <td>DESIGN DIMENSION</td> <td><input checked="" type="checkbox"/> (MM)</td> </tr> <tr> <td>(PRIMARY)</td> <td><input type="checkbox"/> IN.</td> </tr> </table>                                                                                      |                               | DESIGN DIMENSION                                                | <input checked="" type="checkbox"/> (MM) | (PRIMARY)                   | <input type="checkbox"/> IN. | SCALE                                                                                                               |       |  MOLEX EUROPE |       | SHEET NO. | DATE |  |       |          |  |                        |  |  |  |
|                                                                                                                                                                                              |                                         |                                                                                                                                                                                                                                                                             |                               | DESIGN DIMENSION                                                | <input checked="" type="checkbox"/> (MM) |                             |                              |                                                                                                                     |       |                                                                                                    |       |           |      |  |       |          |  |                        |  |  |  |
| (PRIMARY)                                                                                                                                                                                    | <input type="checkbox"/> IN.            |                                                                                                                                                                                                                                                                             |                               |                                                                 |                                          |                             |                              |                                                                                                                     |       |                                                                                                    |       |           |      |  |       |          |  |                        |  |  |  |
| <table border="1"> <tr> <td>EQUIVALENT DIMENSION</td> <td><input type="checkbox"/> (MM)</td> </tr> <tr> <td>(SECONDARY)</td> <td><input checked="" type="checkbox"/> IN.</td> </tr> </table> |                                         | EQUIVALENT DIMENSION                                                                                                                                                                                                                                                        | <input type="checkbox"/> (MM) | (SECONDARY)                                                     | <input checked="" type="checkbox"/> IN.  | PART NO.<br>SEE CHART       |                              | DWG NO.<br>SDAE-3003-N*                                                                                             |       | 30F                                                                                                | 29/8  | /86       |      |  |       |          |  |                        |  |  |  |
|                                                                                                                                                                                              |                                         | EQUIVALENT DIMENSION                                                                                                                                                                                                                                                        | <input type="checkbox"/> (MM) |                                                                 |                                          |                             |                              |                                                                                                                     |       |                                                                                                    |       |           |      |  |       |          |  |                        |  |  |  |
| (SECONDARY)                                                                                                                                                                                  | <input checked="" type="checkbox"/> IN. |                                                                                                                                                                                                                                                                             |                               |                                                                 |                                          |                             |                              |                                                                                                                     |       |                                                                                                    |       |           |      |  |       |          |  |                        |  |  |  |
| SIZE<br>B                                                                                                                                                                                    |                                         |                                                                                                                                                                                                                                                                             |                               |                                                                 |                                          |                             |                              |                                                                                                                     |       |                                                                                                    |       |           |      |  |       |          |  |                        |  |  |  |