

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0010081041

Status:

Active

Overview:

kk

Description:

5.08mm (.200") Pitch KK® Header, Vertical, Round Pin, 4 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)

4

Circuits (maximum)

4

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)

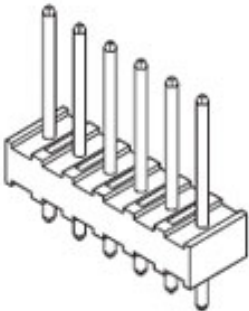
5

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

Halogen-Free

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

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

Electrical

Current - Maximum per Contact	7A
Voltage - Maximum	250V

Solder Process Data

Duration at Max. Process Temperature (seconds)	10
Lead-free Process Capability	Wave Capable (TH only)
Process Temperature max. C	260

Material Info

Old Part Number	3003-04A
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Reference - Drawing Numbers

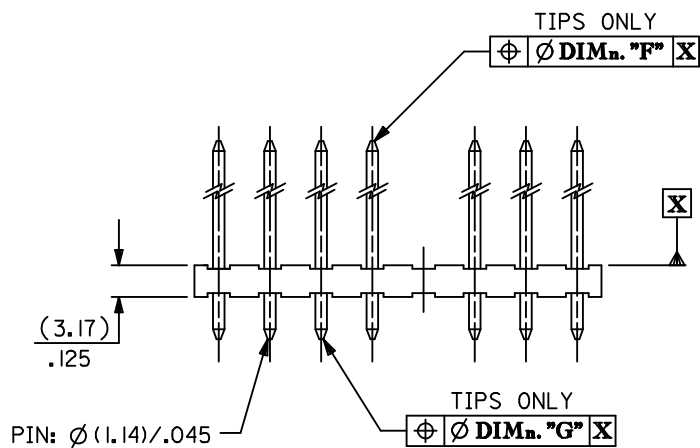
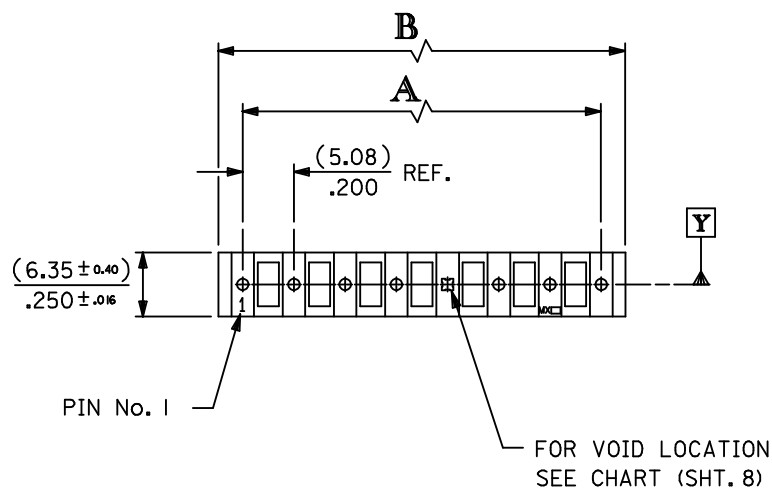
Product Specification	PS-99020-0087
Sales Drawing	SDAE-3003-N*

This document was generated on 05/24/2010

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SEE CHART

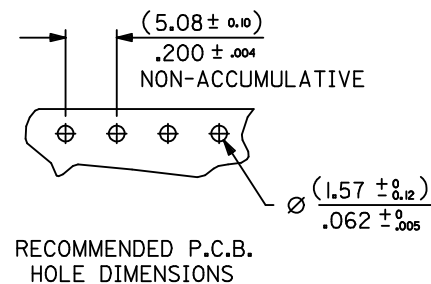
SDAE-3003-N*



3003-N * - *

BASE No. VOID CODE

No. OF CCTS. VERSION



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

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
DRWN: BMAGUIRE
CHKD:
APPR: BMAGUIRE
REV

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. SEE TABLES

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. 1 OF 00

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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)			3
AE-3003-NCG	(501)	(23.04) / .907	(30.48) / 1.200	6
AE-3003-ND	(102)			3
AE-3003-NDG	(501)	(27.81) / 1.095	(34.92) / 1.375	6
AE-3003-NF	(102)			3
AE-3003-NFG	(501)	(32.56) / 1.282	(39.68) / 1.562	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)			4
AE-3003-NS	(501)	(18.29) / .720	(25.40) / 1.000	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

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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		CAD/CAM FILENAME SA3003X3 DGN	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. & SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														
		UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR $\pm 2'$ INCH (METRIC)		TITLE		5.08 mm KK Hdr Vt RPIn													
		<table border="1"> <tr> <td>3 PLACE</td> <td>$\pm$</td> <td>.</td> <td></td> </tr> <tr> <td>2 PLACE</td> <td>$\pm$</td> <td>.</td> <td>$\pm$</td> </tr> <tr> <td>1 PLACE</td> <td></td> <td></td> <td>$\pm$</td> </tr> </table>		3 PLACE	$\pm$	.		2 PLACE	$\pm$	.	$\pm$	1 PLACE			$\pm$	CHK'D BY			
		3 PLACE	$\pm$	.															
2 PLACE	$\pm$	.	$\pm$																
1 PLACE			$\pm$																
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APP'D BY																	
LTR		DESIGN DIMENSION ☒ (MM) (PRIMARY) ☐ IN.		 MOLEX EUROPE		SHEET NO. 30F	DATE 29/8 /86												
		EQUIVALENT DIMENSION ☐ (MM) (SECONDARY) ☒ IN.		SCALE		PART NO. SEE CHART	DWG NO. SDAE-3003-N*	SIZE B											