

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0010081051

Status:

Active

Overview:

kk

Description:

5.08mm (.200") Pitch KK® Header, Vertical, Round Pin, 5 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)

5

Circuits (maximum)

5

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)

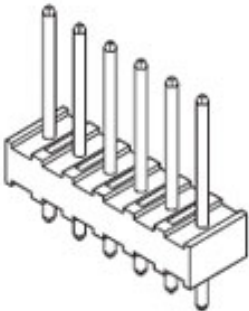
5

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.

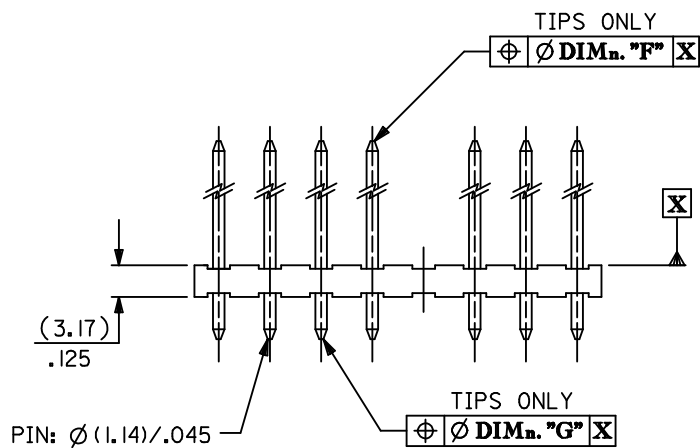
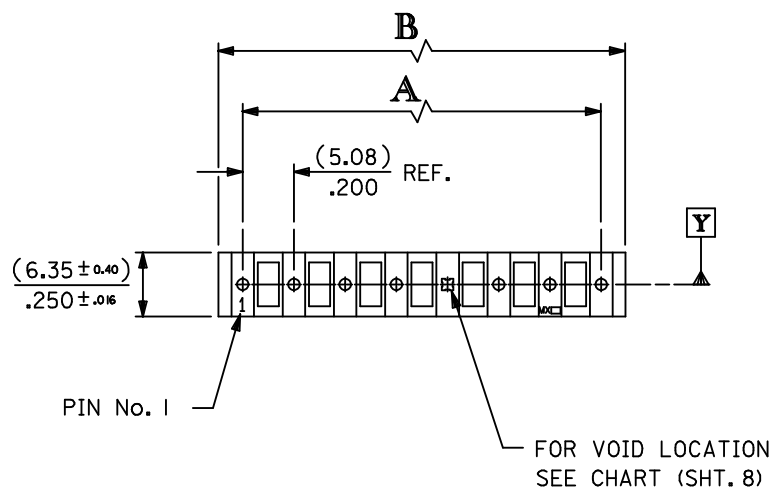
Search Parts in this Series
3003Series

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
Material Info	
Old Part Number	3003-05A
Reference - Drawing Numbers	
Product Specification	PS-99020-0087
Sales Drawing	SDAE-3003-N*

This document was generated on 05/24/2010

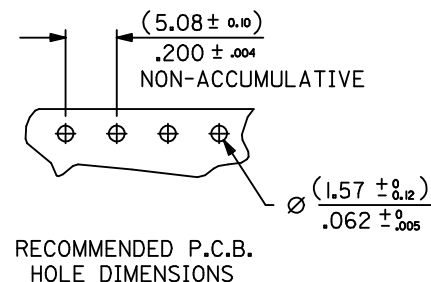
PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

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

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

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 2009/04/07 CHKD: APPR:BMAGUIRE 2009/04/07 REV	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED) mm INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± --- 2 PLACES ± --- ± --- 1 PLACE ± --- ± --- ANGULAR ± ---°	DIMENSION STYLE MM ONLY DRAWN BY DATE CHECKED BY DATE APPROVED BY DATE	SCALE 1:1 TITLE 5.08 MM KK HDR VT RPIN	DESIGN UNITS METRIC THIRD ANGLE PROJECTION	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	MATERIAL NO. SEE CHART	DOCUMENT NO. SDAE-3003-N*	SHEET NO. 2 OF 08	
	BM		SIZE A3	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.	LTR	REVISIONS	THIRD ANGLE PROJECTION 		REVISE ONLY ON CAD SYSTEM		SH.	REV.								
				DIMENSIONS SHOWN (METRIC) INCH		DRWG BY	CAD/CAM FILENAME SA3003X3 DCN	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. & SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
				UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR $\pm 2^\circ$ INCH (METRIC)		GCH											
				<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			$\pm$
3 PLACE	$\pm$	.															
2 PLACE	$\pm$	.	$\pm$														
1 PLACE			$\pm$														
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		APP'D BY															
				<table border="1"> <tr> <td>DESIGN DIMENSION</td> <td>☒ (MM)</td> </tr> <tr> <td>(PRIMARY)</td> <td>☐ IN.</td> </tr> <tr> <td>EQUIVALENT DIMENSION</td> <td>☐ (MM)</td> </tr> <tr> <td>(SECONDARY)</td> <td>☒ IN.</td> </tr> </table>	DESIGN DIMENSION	☒ (MM)	(PRIMARY)	☐ IN.	EQUIVALENT DIMENSION	☐ (MM)	(SECONDARY)	☒ IN.	SCALE	 MOLEX EUROPE		SHEET NO. 30F	DATE 29/8 /86
DESIGN DIMENSION	☒ (MM)																
(PRIMARY)	☐ IN.																
EQUIVALENT DIMENSION	☐ (MM)																
(SECONDARY)	☒ IN.																
						PART NO. SEE CHART	DWG NO. SDAE-3003-N*	SIZE B									