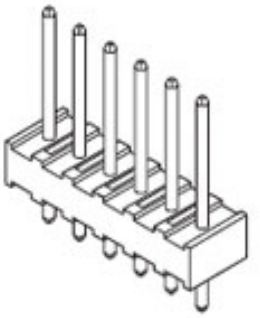
This document was generated on 05/24/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: 0010081043
Status: Active
Overview: kk
Description: 5.08mm (.200") Pitch KK® Header, Vertical, Round Pin, 4 Circuits, Tin (Sn) Plating, Pin Length 30.48mm (1.200")



Series image - Reference only

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
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
Shrouded	No

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
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

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	300304C

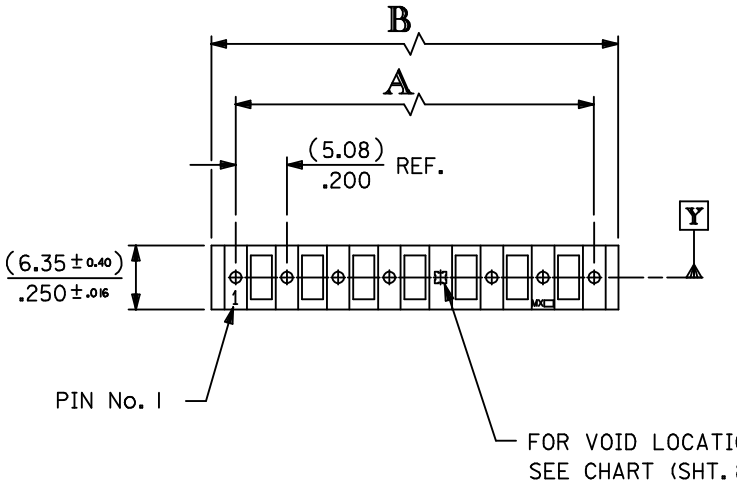
Reference - Drawing Numbers

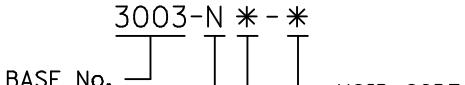
Product Specification	PS-99020-0087
Sales Drawing	SDAE-3003-N*

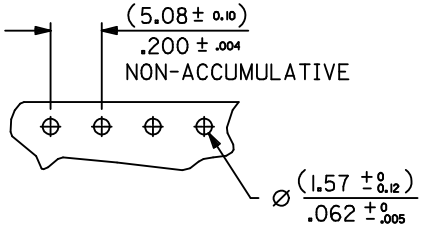
This document was generated on 05/24/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

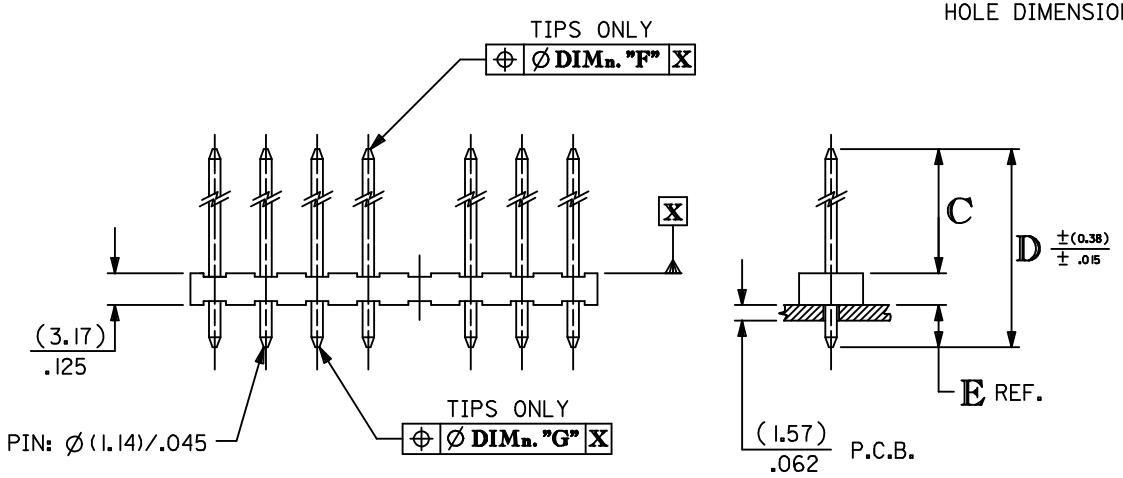
SEE CHART SDAE-3003-N*







RECOMMENDED P.C.B. HOLE DIMENSIONS



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 2009/04/03
DRWN: BMAGUIRE 2009/04/03
CHKD:
APPR: BMAGUIRE 2009/04/06
DESCRIPTION
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
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

DRAWN BY DATE
CHECKED BY DATE
APPROVED BY DATE

TITLE: 5.08 MM KK HDR VT RPIN

molex MOLEX INCORPORATED

MATERIAL NO.: SEE TABLES
DOCUMENT NO.: SDAE-3003-N*
SHEET NO.: 1 OF 00
SIZE: A3

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)	(11.94)/.470	(19.05)/.750	3
AE-3003-NAG	(501)			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 2009/04/07
CHKD: 2009/04/07
APPR: BMAGUIRE 2009/04/07
DESCRIPTION
BM
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
SCALE: 1:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION
DRAWN BY DATE
CHECKED BY DATE
APPROVED BY DATE
TITLE: 5.08 MM KK HDR VT RPIN
MOLEX INCORPORATED
MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDAE-3003-N*
SHEET NO.: 2 OF 08
SIZE: A3

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

PART NO. SEE CHART
DWG. NO. SDAE-3003-N*

ENG. NO.	AE-3003-NA	AE-3003-NB	AE-3003-NC	AE-3003-ND	AE-3003-NF
DIMN. "C"	(11.94 ±0.51) .470 ±.020	(16.69 ±0.51) .657 ±.020	(23.04 ±0.51) .907 ±.020	(27.81 ±0.51) 1.095 ±.020	(32.56 ±0.51) 1.282 ±.020
DIMN. "D"	(19.05) / .750	(23.80) / .937	(30.48) / 1.200	(34.92) / 1.375	(39.68) / 1.562
DIMN. "E"	(3.94) / .155	(3.94) / .155	(4.27) / .168	(3.94) / .155	(3.94) / .155
DIMN. "F"	(1.02) / .040	(1.02) / .040	(1.02) / .040	(1.02) / .040	(1.02) / .040
DIMN. "G"	(1.02) / .040	(1.02) / .040	(1.02) / .040	(1.02) / .040	(1.02) / .040
PLATING	(102) TIN (5.0uM)/.000200 MIN. OVER COPPER (2.5uM)/.000100 MIN.	(102) TIN (5.0uM)/.000200 MIN. OVER COPPER (2.5uM)/.000100 MIN.	(102) TIN (5.0uM)/.000200 MIN. OVER COPPER (2.5uM)/.000100 MIN.	(102) TIN (5.0uM)/.000200 MIN. OVER COPPER (2.5uM)/.000100 MIN.	(102) TIN (5.0uM)/.000200 MIN. OVER COPPER (2.5uM)/.000100 MIN.

NO. OF CIRCUITS	PART NO.	ENG NO.	PART NO.	ENG NO.	PART NO.	ENG NO.	PART NO.	ENG NO.	PART NO.	ENG NO.
2	10-08-1021	AE-3003-2A	10-08-1022	AE-3003-2B	10-08-1023	AE-3003-2C	10-08-1024	AE-3003-2D	10-08-1026	AE-3003-2F
3	↑ -1031	↑ -3A	↑ -1032	↑ -3B	↑ -1033	↑ -3C	↑ -1034	↑ -3D	↑ -1036	↑ -3F
4	-1041	-4A	-1042	-4B	-1043	-4C	-1044	-4D	-1046	-4F
5	-1051	-5A	-1052	-5B	-1053	-5C	-1054	-5D	-1056	-5F
6	-1061	-6A	-1062	-6B	-1063	-6C	-1064	-6D	-1066	-6F
7	-1071	-7A	-1072	-7B	-1073	-7C	-1074	-7D	-1076	-7F
8	-1081	-8A	-1082	-8B	-1083	-8C	-1084	-8D	-1086	-8F
9	-1091	-9A	-1092	-9B	-1093	-9C	-1094	-9D	-1096	-9F
10	-1101	-10A	-1102	-10B	-1103	-10C	-1104	-10D	-1606	-10F
11	-1111	-11A	-1112	-11B	-1113	-11C	-1114	-11D	-1116	-11F
12	-1121	-12A	-1122	-12B	-1123	-12C	-1124	-12D	-1126	-12F
13	-1131	-13A	-1132	-13B	-1133	-13C	-1134	-13D	-1136	-13F
14	-1141	-14A	-1142	-14B	-1143	-14C	-1144	-14D	-1146	-14F
15	-1151	-15A	-1152	-15B	-1153	-15C	-1154	-15D	-1156	-15F
16	-1161	-16A	-1162	-16B	-1163	-16C	-1164	-16D	-1166	-16F
17	-1171	-17A	-1172	-17B	-1173	-17C	-1174	-17D	-1176	-17F
18	-1181	-18A	-1182	-18B	-1183	-18C	-1184	-18D	-1186	-18F
19	↓ -1191	↓ -19A	↓ -1192	↓ -19B	↓ -1193	↓ -19C	↓ -1194	↓ -19D	↓ -1196	↓ -19F
20	10-08-1201	AE-3003-20A	10-08-1202	AE-3003-20B	10-08-1203	AE-3003-20C	10-08-1204	AE-3003-20D	10-08-1206	AE-3003-20F

FOR PREVIOUS DRAWING ISSUES SEE MRI.

LTR	REVISIONS
BK	SEE SHEET 1.

THIRD ANGLE PROJECTION

REVISE ONLY ON CAD SYSTEM | SH. | REV.

DIMENSIONS SHOWN (METRIC) INCH

UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ±2°

	INCH	(METRIC)
3 PLACE	± .	
2 PLACE	± .	±
1 PLACE		±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DESIGN DIMENSION (PRIMARY) ☒ (MM) ☐ IN.

EQUIVALENT DIMENSION (SECONDARY) ☐ (MM) ☒ IN.

DRWG BY: GCH

CHK'D BY:

APP'D BY:

SCALE:

CADCAM FILENAME SA3003X3 DGN

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TITLE: 5.08 mm KK Hdr Vt RPin

molex MOLEX EUROPE

SHEET NO. 3OF

DATE 29/8 /86

PART NO. SEE CHART

DWG NO. SDAE-3003-N*

SIZE B

7132-1283