

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0022233094](#)
Status: **Active**
Description: 2.54mm (.100") Pitch KK@ Solid Header, Vertical, with Staggered Tail, 9 Circuits

Documents:

[3D Model](#) [RoHS Certificate of Compliance \(PDF\)](#)
[Drawing \(PDF\)](#)

Agency Certification

CSA LR19980
 UL E29179

General

Product Family PCB Headers
 Series [42009](#)
 Application Wire-to-Board
 Product Name KK@

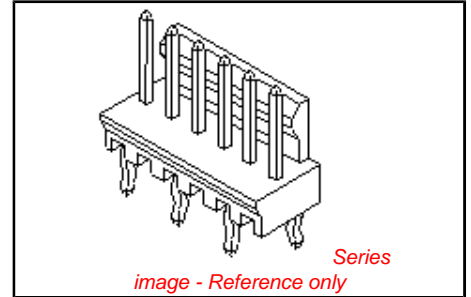
Physical

Breakaway No
 Circuits (Loaded) 9
 Circuits (maximum) 9
 Color - Resin Natural
 Durability (mating cycles max) 25
 Flammability 94V-0
 Glow-Wire Compliant No
 Lock to Mating Part Yes
 Material - Plating Mating Tin
 Material - Plating Termination Tin
 Material - Resin Polyester
 Number of Rows 1
 Orientation Vertical
 PC Tail Length (in) 0.130 In
 PC Tail Length (mm) 3.30 mm
 PCB Locator No
 PCB Retention Yes
 PCB Thickness Recommended (in) 0.062 In
 PCB Thickness Recommended (mm) 1.60 mm
 Packaging Type Bag
 Pitch - Mating Interface (in) 0.100 In
 Pitch - Mating Interface (mm) 2.54 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 Yes
 Polarized to PCB No
 Shrouded Partial
 Stackable No
 Temperature Range - Operating 0°C to +75°C
 Termination Interface: Style Through Hole

Electrical

Current - Maximum per Contact 4A
 Voltage - Maximum 250V

Solder Process Data



EU RoHS

ELV and RoHS Compliant
REACH SVHC Contains SVHC: No
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
[42009Series](#)

Mates With
 2695 , 6471 , 7880 , 4455 , 7720 , 40555

Duration at Max. Process Temperature (seconds)	5
Lead-free Process Capability	Wave Capable (TH only)
Max. Cycles at Max. Process Temperature	1
Process Temperature max. C	235

Material Info

Old Part Number	A-42009-09
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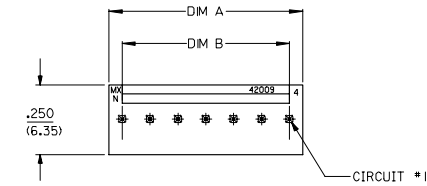
Reference - Drawing Numbers

Sales Drawing	SDA-42009-*
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This document was generated on 03/19/2010

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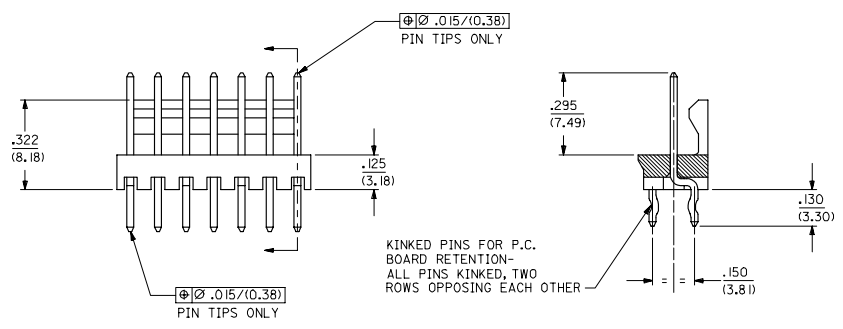
13 12 11 10 9 8 7 6 5 4 3 2 1



- NOTES
1. MATERIAL; INSULATOR - POLYESTER, GLASS FILLED
PIN - BRASS
 2. FINISH: TIN .000200/(0.00508) MIN.
OVERALL COPPER UNDERPLATE: .000100/(0.00254) MIN.
 3. PRODUCT SPECIFICATION: PS-10-07
 4. BULK PACK PER PK-43009-001
 5. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

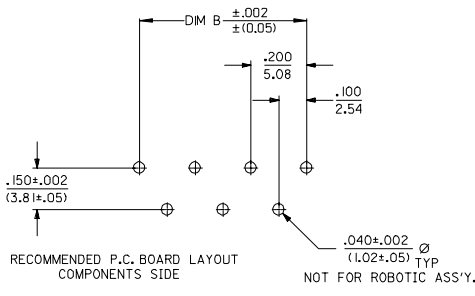
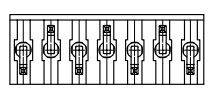
ENG. NO. DESIGNATION:
A-42009- N - - **
CKT. SIZE - - - - - VOID PIN DESIGNATION
A = #1 PIN
B = #2 PIN
C = #3 PIN
ECT.

MOLDED COLOR:
BLANK = NATURAL
A = BLUE
E = GREEN
R = RED
H = BLACK



KINKED PINS FOR P.C. BOARD RETENTION- ALL PINS KINKED, TWO ROWS OPPOSING EACH OTHER

10	.995/(25.27)	.900/(22.86)
9	.895/(22.73)	.800/(20.32)
8	.795/(20.19)	.700/(17.78)
7	.695/(17.65)	.600/(15.24)
6	.595/(15.11)	.500/(12.70)
5	.495/(12.57)	.400/(10.16)
4	.395/(10.03)	.300/(7.62)
3	.295/(7.49)	.200/(5.08)
2	.195/(4.95)	.100/(2.54)
CKT SIZE	DIM A	DIM B



3	I1
2	H1
1	J1
SHT. REV.	

ADD TOL. BLOCK EC NO. UCP2007-1476 DRAWN BY: J1 CHECKED BY: J1 APPR: SMITH DATE: 2006/11/29	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) 4 PLACES ± --- ± --- 3 PLACES ± --- ± .010 2 PLACES ± 0.25 ± .014 1 PLACE ± 0.36 ± --- ANGULAR ±1/2°	DIMENSION STYLE IN/MM DRAWN BY: EDGLEY DATE: 1986/11/29 CHECKED BY: EDGLEY DATE: 1986/11/29 APPROVED BY: EDGLEY DATE: 1986/11/29	SCALE 1:1 DESIGN UNITS INCH THIRD ANGLE PROJECTION	TITLE: WAFER, FRICTION LOCK ASSEMBLY MOLEX INCORPORATED MATERIAL NO. SEE CHART DOCUMENT NO. SDA-42009-* SHEET NO. 1 OF 3
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				

12 11 10 9 8 7 6 5 4 3 2 1

		A-42009-N			A-42009-NA			A-42009-NE			A-42009-NH			
13	12	11	10	9	8	7	6	5	4	3	2	1		
PART NO.	ENG. NO.	VOID CKT.	PART NO.	ENG. NO.	VOID CKT.	PART NO.	ENG. NO.	VOID CKT.	PART NO.	ENG. NO.	VOID CKT.	PART NO.	ENG. NO.	VOID CKT.
22-23-3024	A-42009-2	NONE	22-23-5026	A-42009-2A	NONE	22-23-5027	A-42009-2E	NONE	22-23-5028	A-42009-2H	NONE	22-23-5029	A-42009-2I	NONE
22-23-3034	A-42009-3	NONE	22-23-5036	A-42009-3A	NONE	22-23-5037	A-42009-3E	NONE	22-23-5038	A-42009-3H	NONE	22-23-5039	A-42009-3I	NONE
22-23-3044	A-42009-4	NONE	22-23-5046	A-42009-4A	NONE	22-23-5047	A-42009-4E	NONE	22-23-5048	A-42009-4H	NONE	22-23-5049	A-42009-4I	NONE
22-23-3054	A-42009-5	NONE	22-23-5056	A-42009-5A	NONE	22-23-5057	A-42009-5E	NONE	22-23-5058	A-42009-5H	NONE	22-23-5059	A-42009-5I	NONE
22-23-3064	A-42009-6	NONE	22-23-5066	A-42009-6A	NONE	22-23-5067	A-42009-6E	NONE	22-23-5068	A-42009-6H	NONE	22-23-5069	A-42009-6I	NONE
22-23-3074	A-42009-7	NONE	22-23-5076	A-42009-7A	NONE	22-23-5077	A-42009-7E	NONE	22-23-5078	A-42009-7H	NONE	22-23-5079	A-42009-7I	NONE
22-23-3084	A-42009-8	NONE	22-23-5086	A-42009-8A	NONE	22-23-5087	A-42009-8E	NONE	22-23-5088	A-42009-8H	NONE	22-23-5089	A-42009-8I	NONE
22-23-3094	A-42009-9	NONE	22-23-5096	A-42009-9A	NONE	22-23-5097	A-42009-9E	NONE	22-23-5098	A-42009-9H	NONE	22-23-5099	A-42009-9I	NONE
22-23-3104	A-42009-10	NONE	22-23-5106	A-42009-10A	NONE	22-23-5107	A-42009-10E	NONE	22-23-5108	A-42009-10H	NONE	22-23-5109	A-42009-10I	NONE
22-46-4041	A-42009-4-B	2												
22-46-4042	A-42009-4-C	3												
22-46-4052	A-42009-5-B	2												
22-46-4053	A-42009-5-C	3												
22-46-4050	A-42009-5-D	4												
22-46-4051	A-42009-5-E	5												
22-46-4064	A-42009-6-B	2												
	A-42009-6-BC	2,3												
22-46-4068	A-42009-6-D	4												
22-46-4065	A-42009-6-E	5												
22-46-4069	A-42009-6-F	6												
22-46-4072	A-42009-7-E	5												
22-46-4080	A-42009-8-D	4												
22-46-4081	A-42009-8-E	5												
22-46-4031	A-42009-3-C	3												
22-46-4063	A-42009-6-DE	4,5												
22-46-4062	A-42009-6-CF	3,6												
22-46-4061	A-42009-6-BD	2,4												
22-46-4030	A-42009-3-B	2												
22-46-4066	A-42009-6-C	3												
22-46-4071	A-42009-7-D	4												
22-46-4067	A-42009-6-CE	3,5												
22-46-4074	A-42009-7-C	3												
22-46-4075	A-42009-7-F	6												
22-46-4073	A-42009-7-B	2												
22-46-4082	A-42009-8-H	8												
22-46-4083	A-42009-8-F	6												
22-46-4101	A-42009-10-1	9												
22-46-4100	A-42009-10-B	2												
22-46-4043	A-42009-4-D	2,5												
22-46-4060	A-42009-6-BE	4												

MOLDDED COLOR: _____
 BLANK = NATURAL
 A = BLUE
 E = GREEN
 R = RED
 H = BLACK

VOID PIN DESIGNATION
 A# #1 PIN
 B# #2 PIN
 C# #3 PIN
 ECTI.

DIMENSIONS SHOWN UNLESS OTHERWISE SPECIFIED
 UNLESS OTHERWISE SPECIFIED
 3 HOLE ± .010
 2 HOLE ± .010
 1 HOLE ± .010

MOLEX INCORPORATED
 K-K-1000(12,54)
 SHEET NO. 2 DATE 9/11/87
 SD A-42009-4

WAFER, FRICTION LOCK ASSEMBLY
 TITLE: _____
 PART NO. _____
 REV. _____
 DATE _____
 BY _____
 CHECKED BY _____
 APPROVED BY _____
 SCALE: _____
 UNIT: _____
 DRAWN BY _____
 DESIGNED BY _____
 ENGINEER BY _____
 MANUFACTURED BY _____
 MATERIAL BY _____
 FINISH BY _____
 TEST BY _____
 APPROVED BY _____
 DATE _____