

**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0022233104](#)  
**Status:** **Active**  
**Description:** 2.54mm (.100") Pitch KK@ Solid Header, Vertical, with Staggered Tail, 10 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@

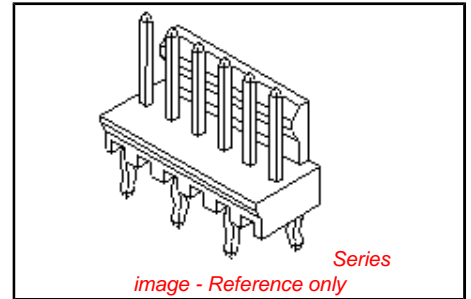
**Physical**

Breakaway No  
 Circuits (Loaded) 10  
 Circuits (maximum) 10  
 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**



<p><b>EU RoHS</b>  <b>ELV and RoHS</b>  <b>Compliant</b>  <b>REACH SVHC</b>  <b>Contains SVHC: No</b>  <b>Halogen-Free</b>  <b>Status</b>  <b>Not Reviewed</b></p>	<p><b>China RoHS</b></p>
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**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**  
[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-42009-10
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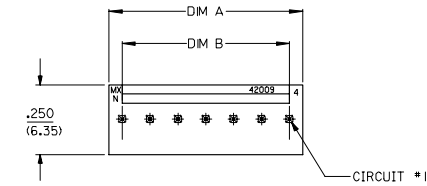
**Reference - Drawing Numbers**

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

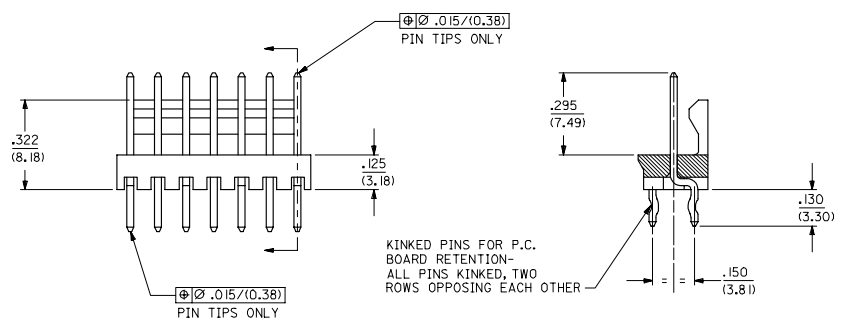


- NOTES
1. MATERIAL; INSULATOR - POLYESTER, GLASS FILLED  
PIN - BRASS
  2. FINISH: TIN .000200/(0.00508) MIN.  
OVERALL COPPER UNDERPLATE: .000100/(0.00254) MIN.
  3. PRODUCT SPECIFICATION: PS-10-07
  4. BULK PACK PER PK-43009-001
  5. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION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

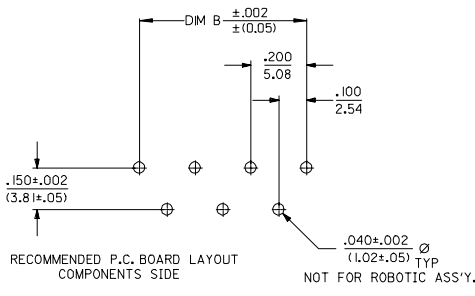
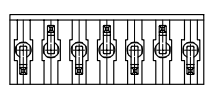
ENG. NO. DESIGNATION:  
A-42009- N - - \*\*

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



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	SCALE 1:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION
	DRAWN BY: EDGLEY DATE: 1986/11/29 CHECKED BY: EDGLEY DATE: 1986/11/29 APPROVED BY: EDGLEY DATE: 1986/11/29		TITLE: WAFER, FRICTION LOCK ASSEMBLY			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE CHART SIZE C		MOLEX INCORPORATED DOCUMENT NO. SDA-42009-* SHEET NO. 1 OF 3	
	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

		13		12		11		10		9		8		7		6		4		3		2		1		
		A-42009-N						A-42009-NA						A-42009-NE						A-42009-NH						
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.	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	22-23-5030	A-42009-2J	NONE	22-23-5031	A-42009-2K	NONE	22-23-5032	A-42009-2L	NONE	22-23-5033	A-42009-2M	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	22-23-5040	A-42009-3J	NONE	22-23-5041	A-42009-3K	NONE	22-23-5042	A-42009-3L	NONE	22-23-5043	A-42009-3M	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	22-23-5050	A-42009-4J	NONE	22-23-5051	A-42009-4K	NONE	22-23-5052	A-42009-4L	NONE	22-23-5053	A-42009-4M	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	22-23-5060	A-42009-5J	NONE	22-23-5061	A-42009-5K	NONE	22-23-5062	A-42009-5L	NONE	22-23-5063	A-42009-5M	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	22-23-5070	A-42009-6J	NONE	22-23-5071	A-42009-6K	NONE	22-23-5072	A-42009-6L	NONE	22-23-5073	A-42009-6M	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	22-23-5080	A-42009-7J	NONE	22-23-5081	A-42009-7K	NONE	22-23-5082	A-42009-7L	NONE	22-23-5083	A-42009-7M	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	22-23-5090	A-42009-8J	NONE	22-23-5091	A-42009-8K	NONE	22-23-5092	A-42009-8L	NONE	22-23-5093	A-42009-8M	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	22-23-5100	A-42009-9J	NONE	22-23-5101	A-42009-9K	NONE	22-23-5102	A-42009-9L	NONE	22-23-5103	A-42009-9M	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															
22-46-4041	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																								
22-46-4081	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

PART NO. 542009X2  
 TITLE WAFER FRICTION LOCK ASSEMBLY  
 K-K-1000(12,54)  
 DATE 9/11/87  
 SHEET NO. 2 OF 2  
 DESIGNED BY SD A-42009-4  
 CHECKED BY KK  
 DRAWN BY KK