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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®

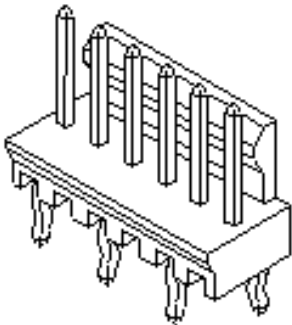
Physical

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



*Series
image - Reference only*

EU RoHS

**ELV and RoHS
Compliant**
**REACH SVHC
Contains SVHC: No**
**Halogen-Free
Status**

China RoHS



Not Reviewed

**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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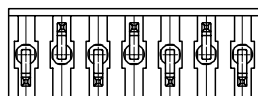
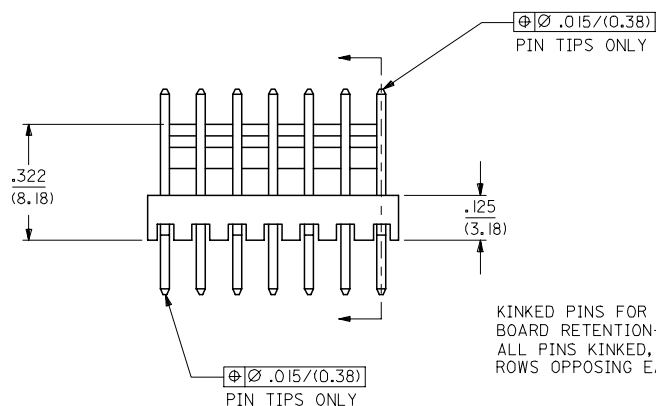
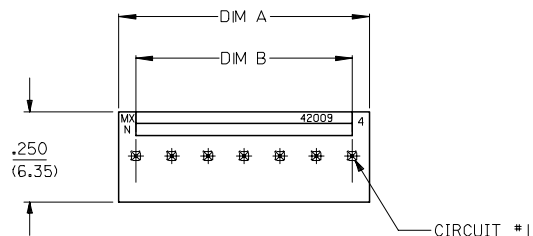
E

D

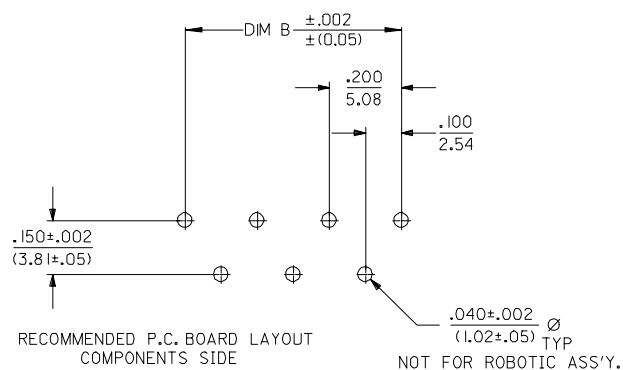
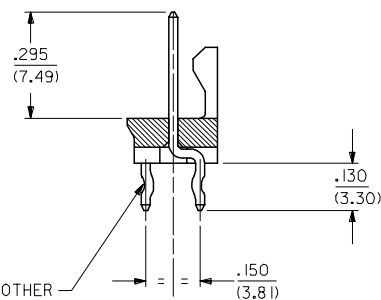
C

B

A



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



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/PRI DER 2006/12/19 CHKD:ADER 2006/12/19 APPR:FSM TH 2006/12/20	DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 1:1	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION
			mm	INCH	DRAWN BY	DATE	TITLE WAFER, FRICTION LOCK ASSEMBLY		
			4 PLACES ±---	±---	EDGLEY	1986/11/29			
			3 PLACES ±---	±.010	CHECKED BY	DATE			
			2 PLACES ±0.25	±.014	EDGLEY	1986/11/29			
1 PLACE ±0.36	±---	APPROVED BY	DATE	MOLEX MOLEX INCORPORATED					
ANGULAR ±1/2°		EDGLEY	1986/11/29						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		SEE CHART		DOCUMENT NO.	SDA-42009-*		SHEET NO. 1 OF 3
NEW		SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

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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.																																					
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																																								
22-23-3034	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																																								
22-23-3044	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																																								
22-23-3054	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																																								
22-23-3064	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																																								
22-23-3074	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																																								
22-23-3084	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																																								
22-23-3094	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																																								
22-23-3104	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																																																		
22-46-4042	A-42009-4-C																																																		
22-46-4052	A-42009-5-B																																																		
22-46-4053	A-42009-5-C																																																		
22-46-4050	A-42009-5-D																																																		
22-46-4051	A-42009-5-E																																																		
22-46-4064	A-42009-6-B																																																		
	A-42009-6-BC																																																		
22-46-4068	A-42009-6-D																																																		
22-46-4065	A-42009-6-E																																																		
22-46-4069	A-42009-6-F																																																		
22-46-4072	A-42009-7-E																																																		
22-46-4080	A-42009-8-D																																																		
22-46-4081	A-42009-8-E																																																		
22-46-4031	A-42009-3-C																																																		
22-46-4063	A-42009-6-DE																																																		
22-46-4062	A-42009-6-CF																																																		
22-46-4061	A-42009-6-BD																																																		
22-46-4030	A-42009-3-B																																																		
22-46-4066	A-42009-6-C																																																		
22-46-4071	A-42009-7-D																																																		
22-46-4067	A-42009-6-CE																																																		
22-46-4074	A-42009-7-C																																																		
22-46-4075	A-42009-7-F																																																		
22-46-4073	A-42009-7-B																																																		
22-46-4082	A-42009-8-H																																																		
22-46-4083	A-42009-8-F																																																		
22-46-4101	A-42009-10-I																																																		
22-46-4100	A-42009-10-B																																																		
22-46-4043	A-42009-4-D																																																		
22-46-4060	A-42009-6-BE																																																		
COLUMN NO. 1	CON'T. IN COLUMN NO.	SHEET NO.	COLUMN NO. 2	CON'T. IN COLUMN NO.	SHEET NO.	COLUMN NO. 3	CON'T. IN COLUMN NO.	SHEET NO.	COLUMN NO. 4	CON'T. IN COLUMN NO.	SHEET NO.																																								
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13	12	11	10	9	8	7	6	5	4	3	2	1																																							
42009																																																			
A														A																																					