

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0022281063](#)
Status: **Active**
Description: 2.54mm (.100") Pitch KK® Header, Breakaway, Right Angle, with Friction Lock, 6 Circuits, Tin (Sn) Plating. with Kinked PC Tails

Documents:

3D Model	Product Specification PS-10-07 (PDF)
Packaging Specification (PDF)	RoHS Certificate of Compliance (PDF)
Drawing (PDF)	

Agency Certification

CSA	LR19980
UL	E29179

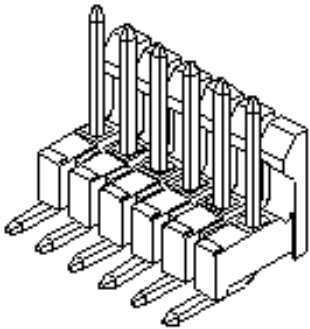
General

Product Family	PCB Headers
Series	42228
Application	Wire-to-Board
Product Name	KK®

Physical

Breakaway	Yes
Circuits (Loaded)	6
Circuits (maximum)	6
Color - Resin	Black
Durability (mating cycles max)	25
Flammability	94V-0
Glow-Wire Compliant	No
Lock to Mating Part	Yes
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	Nylon
Number of Rows	1
Orientation	Right Angle
PC Tail Length (in)	0.120 In
PC Tail Length (mm)	3.05 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)	100
Plating min: Mating (µm)	2.5
Plating min: Termination (µin)	100
Plating min: Termination (µm)	2.5
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



Series
image - Reference only

EU RoHS

**ELV and RoHS
Compliant**
REACH SVHC
Not Reviewed
**Halogen-Free
Status**

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.

China RoHS



Search Parts in this Series
[42228Series](#)

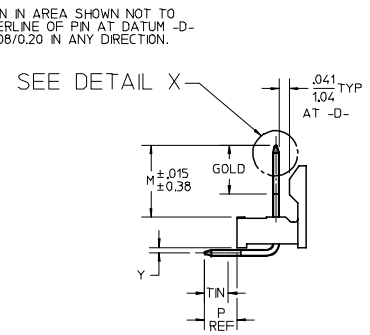
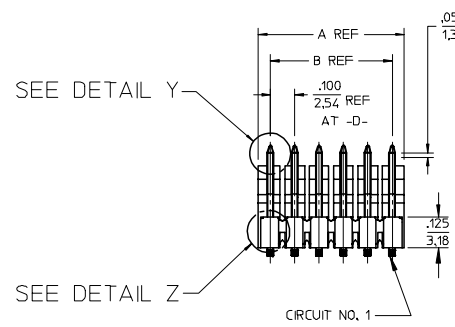
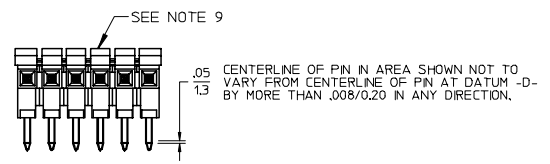
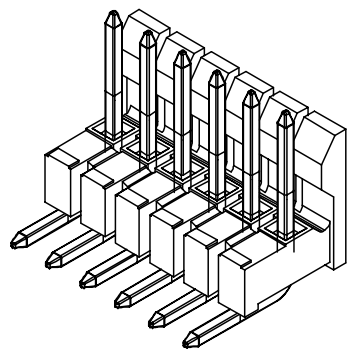
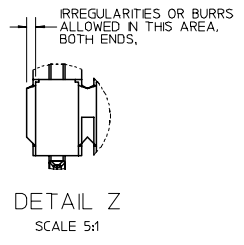
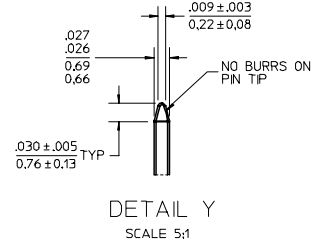
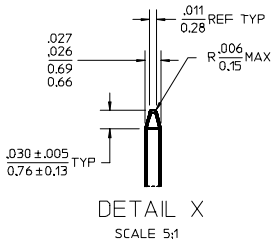
Mates With
[2695](#) , [6471](#) , [7880](#) , [4455](#) , [7720](#)

Current - Maximum per Contact	4A
Voltage - Maximum	250V
Solder Process Data	
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	42228-0111
Reference - Drawing Numbers	
Product Specification	PS-10-07
Sales Drawing	SD-42228-001, SD-42228-002

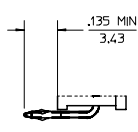
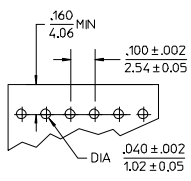
This document was generated on 03/22/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

CKTS	DM A	DM B
2	.200/5.08	.100/2.54
3	.300/7.62	.200/5.08
4	.400/10.16	.300/7.62
5	.500/12.70	.400/10.16
6	.600/15.24	.500/12.70
7	.700/17.78	.600/15.24
8	.800/20.32	.700/17.78
9	.900/22.86	.800/20.32
10	1.000/25.40	.900/22.86
11	1.100/27.94	1.000/25.40
12	1.200/30.48	1.100/27.94
13	1.300/33.02	1.200/30.48
14	1.400/35.56	1.300/33.02
15	1.500/38.10	1.400/35.56
16	1.600/40.64	1.500/38.10
17	1.700/43.18	1.600/40.64
18	1.800/45.72	1.700/43.18
19	1.900/48.26	1.800/45.72
20	2.000/50.80	1.900/48.26
21	2.100/53.34	2.000/50.80
22	2.200/55.88	2.100/53.34
23	2.300/58.42	2.200/55.88
24	2.400/60.96	2.300/58.42
25	2.500/63.50	2.400/60.96
26	2.600/66.04	2.500/63.50
27	2.700/68.58	2.600/66.04
28	2.800/71.12	2.700/68.58
29	2.900/73.66	2.800/71.12
30	3.000/76.20	2.900/73.66
31	3.100/78.74	3.000/76.20
32	3.200/81.28	3.100/78.74
33	3.300/83.82	3.200/81.28
34	3.400/86.36	3.300/83.82
35	3.500/88.90	3.400/86.36
36	3.600/91.44	3.500/88.90

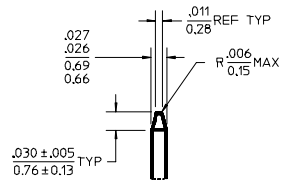


- NOTES:
- MATERIAL: GLASS FILLED NYLON, 94V-0, COLOR: BLACK
 - FINISH:
 - (154) *OVERALL TIN: .000100/0.00254 MIN. OVER .000050/0.00127 MIN NICKEL.
 - (208) SELECT GOLD: .000015/0.00038 MIN. *SELECT TIN: .000100/0.00254 MIN. OVERALL NICKEL UNDERPLATE: .000050/0.00127 MIN.
 - (228) SELECT GOLD: .000030/0.00076 MIN. *SELECT TIN: .000100/0.00254 MIN. OVERALL NICKEL UNDERPLATE: .000050/0.00127 MIN.
 - *THE PRIMARY SHIPPING CARTON WILL BE LABELED "COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC". CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH TIN-LEAD PLATING
 - PRODUCT SPECIFICATION: PS-10-07.
 - PACKAGING INFORMATION: SEE TABLES
 - KINK PIN SPECIFICATION: SEE SMES-42003
 - HEADERS ARE NOT STACKABLE ON .100/2.54 CENTERS.
 - SOLDERABILITY PER SMES-152.
 - PIN PUSH OUT FORCE: 3 LBS. MIN.
 - ABRASION MARKS ON BACK WALL SURFACE ARE PERMISSIBLE.

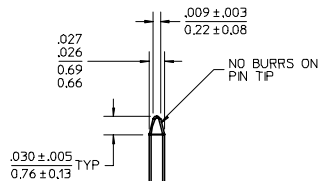


ADD NOTE 9 EC NO: UCP2006-1710 DRAWN:ADERR CHKD:LSCHM:DT APPR:FSM:TH 2006/02/01 2006/02/02 2006/02/06	QUALITY SYMBOLS ▽=0 ▽=0	DESCRIPTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 2:1	DESIGN UNITS INCH	 THIRD ANGLE PROJECTION	
					DRAWN BY DATE		TITLE 			

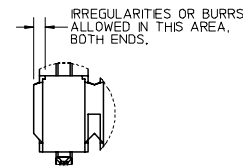
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14	1.400/35.56	1.300/33.02
15	1.500/38.10	1.400/35.56
16	1.600/40.64	1.500/38.10
17	1.700/43.18	1.600/40.64
18	1.800/45.72	1.700/43.18
19	1.900/48.26	1.800/45.72
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36	3.600/91.44	3.500/88.90



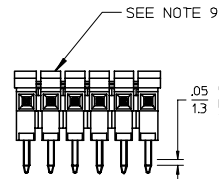
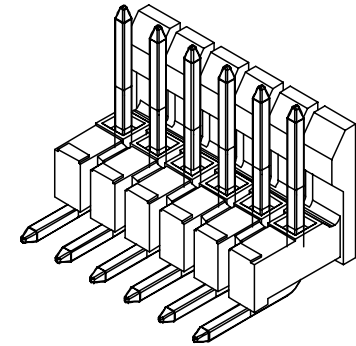
DETAIL X
SCALE 5:1



DETAIL Y
SCALE 5:1



DETAIL Z
SCALE 5:1



.05 CENTERLINE OF PIN IN AREA SHOWN NOT TO VARY FROM CENTERLINE OF PIN AT DATUM -D- BY MORE THAN .008/0.20 IN ANY DIRECTION.

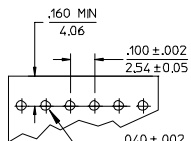
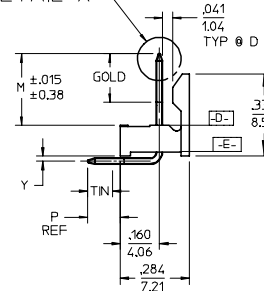
SEE DETAIL Y

SEE DETAIL X

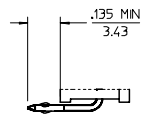
SEE DETAIL Z

CIRCUIT NO. 1

OPTIONAL
REMOVED
BACKWALLS
(FIRST &
LAST CKTS)



RECOMMENDED PC BOARD
LAYOUT



KINKED PIN DETAIL
SEE NOTE 5

NOTES:

1. MATERIAL: GLASS FILLED NYLON, 94V-0, COLOR: BLACK
2. FINISH:

(154) *OVERALL TIN: .000100/0.00254 MIN.

OVER .000050/0.00127 MN NICKEL.

(208) SELECT GOLD: .000015/0.00038 MIN.

*SELECT TIN: .000100/0.00254 MIN.

OVERALL NICKEL UNDERPLATE: .000050/0.00127 MN.

(228) SELECT GOLD: .000030/0.00076 MIN.

*SELECT TIN: .000100/0.00254 MIN.

OVERALL NICKEL UNDERPLATE: .000050/0.00127 MN.

*THE PRIMARY SHIPPING CARTON WILL BE LABELED

*COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV

ANNEX II OF DIRECTIVE 2000/53/EC. CARTONS WITHOUT

THIS LABEL MAY CONTAIN PRODUCT WITH TIN-LEAD PLATING

3. PRODUCT SPECIFICATION: PS-10-07.

4. PACKAGING INFORMATION: SEE TABLES

5. KINK PIN SPECIFICATION: SEE SMES-42003

6. HEADERS ARE NOT STACKABLE ON .100/2.54 CENTERS.

7. SOLDERABILITY PER SMES-152.

8. PIN PUSH OUT FORCE: 3 LBS. MIN.

9. ABRASION MARKS ON BACK WALL SURFACE ARE PERMISSIBLE.

2	L
1	L4
SHT	REV

ADD NOTE 9		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE		DESIGN UNITS		THIRD ANGLE PROJECTION	
EC NO: UCP2006-1710		2006/02/01		mm		IN/MM		2:1		INCH		2:1	
DRWN:ADERR		2006/02/01		4 PLACES ±---		DRAWN BY JSCHAFFER		DATE 2004/03/18		TITLE		.100 FRICTION LOCK	
CHKD:LSCHMIT		2006/02/02		3 PLACES ±---		CHECKED BY		DATE		MOLEX		BREAKAWAY HEADER ASSY	
APPR:FSMTH		2006/02/06		2 PLACES ±0.25 ±.014		APPROVED BY KSAMIEC		DATE 2004/03/18		MOLEX INCORPORATED		SHEET NO.	
				1 PLACE ±0.36 ±---		MARGULIS		DATE 2004/03/18		DOCUMENT NO.		1 OF 6	
				ANGULAR ±1/2°		MATERIAL NO.		SEE CHART		SD-42228-002			
				DRAFT WHERE APPLICABLE		SIZE B		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					
L4		REV											