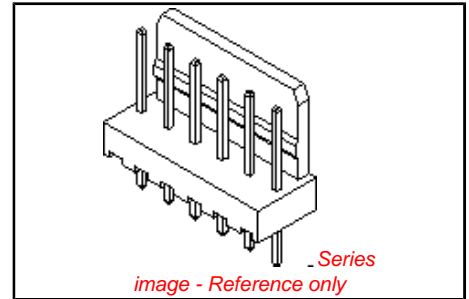


**PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION**

**Part Number:** [0022272141](#)  
**Status:** **Active**  
**Overview:** [kk](#)  
**Description:** 2.54mm (.100") Pitch KK® Wire-to-Board Header, Vertical, with Friction Lock, 14 Circuits, Tin (Sn) Plating

**Documents:**

<a href="#">3D Model</a>	<a href="#">Product Specification PS-99020-0088 (PDF)</a>
<a href="#">Drawing (PDF)</a>	<a href="#">RoHS Certificate of Compliance (PDF)</a>
<a href="#">Product Specification PS-10-07 (PDF)</a>	



**Agency Certification**

CSA	LR19980
UL	E29179

**General**

Product Family	PCB Headers
Series	6410
Application	Wire-to-Board
Overview	<a href="#">kk</a>
Product Name	KK®

**Physical**

Breakaway	No
Circuits (Loaded)	14
Circuits (maximum)	14
Color - Resin	Natural (White)
First Mate / Last Break	No
Flammability	94V-0
Glow-Wire Compliant	No
Guide to Mating Part	No
Keying to Mating Part	None
Lock to Mating Part	Yes
Material - Metal	Brass
Material - Plating Mating	Tin
Material - Plating Termination	Tin
Material - Resin	Nylon
Number of Rows	1
Orientation	Vertical
PC Tail Length (in)	0.140 In
PC Tail Length (mm)	3.56 mm
PCB Locator	No
PCB Retention	None
PCB Thickness Recommended (in)	0.063 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
Pitch - Term. Interface (in)	0.100 In
Pitch - Term. 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

**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](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**  
[6410Series](#)

**Mates With**  
 KK® Crimp Terminal Housing [2695](#) , [6471](#)

Shrouded	Partial
Stackable	No
Surface Mount Compatible (SMC)	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**

Lead-free Process Capability	Wave Capable (TH only)
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**Material Info**

Old Part Number	AE-6410-14A(102)
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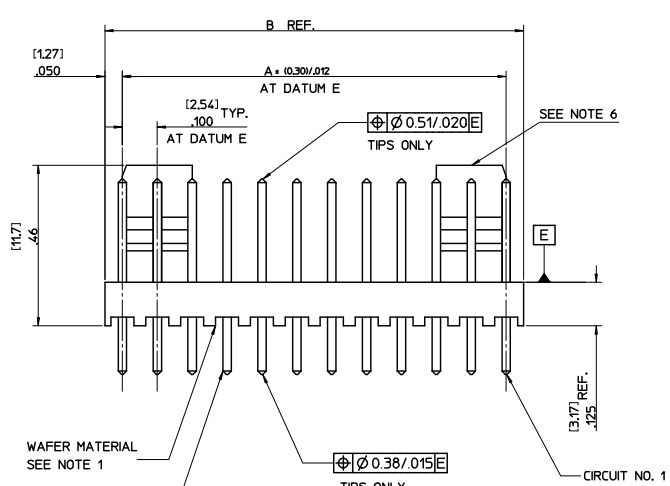
**Reference - Drawing Numbers**

Packaging Specification	PK-6373-001
Product Specification	PS-10-07, PS-99020-0088
Sales Drawing	SDAE-6410-N

This document was generated on 05/24/2010

**PLEASE CHECK [WWW.MOLEX.COM](http://WWW.MOLEX.COM) FOR LATEST PART INFORMATION**

NO. OF CCTS	DIMN. "A"	DIMN. "B"
2	( 2.54 ) .100	( 5.08 ) .200
3	( 5.08 ) .200	( 7.62 ) .300
4	( 7.62 ) .300	( 10.16 ) .400
5	( 10.16 ) .400	( 12.70 ) .500
6	( 12.70 ) .500	( 15.24 ) .600
7	( 15.24 ) .600	( 17.78 ) .700
8	( 17.78 ) .700	( 20.32 ) .800
9	( 20.32 ) .800	( 22.86 ) .900
10	( 22.86 ) .900	( 25.40 ) 1.000
11	( 25.40 ) 1.000	( 27.94 ) 1.100
12	( 27.94 ) 1.100	( 30.48 ) 1.200
13	( 30.48 ) 1.200	( 33.02 ) 1.300
14	( 33.02 ) 1.300	( 35.56 ) 1.400
15	( 35.56 ) 1.400	( 38.10 ) 1.500
16	( 38.10 ) 1.500	( 40.64 ) 1.600
17	( 40.64 ) 1.600	( 43.18 ) 1.700
18	( 43.18 ) 1.700	( 45.72 ) 1.800
19	( 45.72 ) 1.800	( 48.26 ) 1.900
20	( 48.26 ) 1.900	( 50.80 ) 2.000
21	( 50.80 ) 2.000	( 53.34 ) 2.100
22	( 53.34 ) 2.100	( 55.88 ) 2.200
23	( 55.88 ) 2.200	( 58.42 ) 2.300
24	( 58.42 ) 2.300	( 60.86 ) 2.400
25	( 60.86 ) 2.400	( 63.50 ) 2.500
26	( 63.50 ) 2.500	( 66.04 ) 2.600
27	( 66.04 ) 2.600	( 68.58 ) 2.700
28	( 68.58 ) 2.700	( 71.12 ) 2.800



WAIVER MATERIAL  
SEE NOTE 1

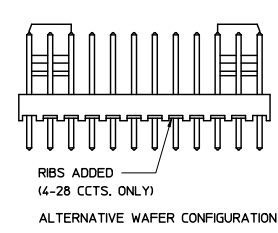
(0.64)/.025 SQ. PIN BRASS  
FOR PLATING SEE SHEET 2

AE-6410- N \* (\*)

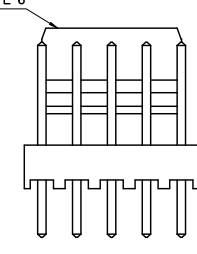
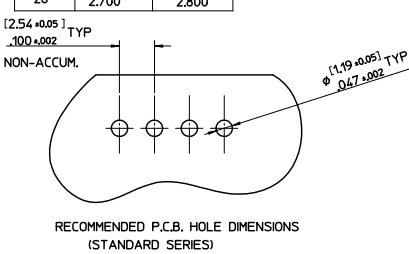
NO. OF CCTS

PLATING TYPE

WAIVER ASSY.  
OPTION



- NOTES:
1. WAIVER MATERIAL: NYLON 94V-0
  2. PIN PUSH OUT FORCE: 0.907 Kg/2lbs MIN.
  3. WAFERS STACKABLE END TO END WITH (2.54)/.100 BETWEEN END PINS
  4. THIS PART CONFORMS TO MOLEX PROD. SPEC. PS99020-0088.
  5. PIN SOLDERABILITY PER MOLEX SPEC. NO. 152.
  6. SINGLE RAMP ON 2-6 CCTS TWO RAMP ON 7-28 CCTS. AS SHOWN.
  7. PRODUCT SPECIFICATION: PS-99020-0087
  8. PCB THICKNESS 1.6MM



ADD VOIDED OPTION LEC NO. E2009-0413 2009/02/24 DRAWN: BMAGUIRE CHKD: 2009/02/24 APPR: BMAGUIRE 2009/02/24 REV	QUALITY SYMBOLS =0 =0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
		mm	INCH	MM/IN	MM/IN			
		4 PLACES ± .010	± .005			4:1	METRIC	
		3 PLACES ± .025	± .010					
		2 PLACES ± 0.25	± .014					
		1 PLACE ± 0.35	± .010					
		ANGULAR ± 5°						
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						
		DRAWN BY: T. MAHON DATE: 28/01/03		CHECKED BY: BMAGUIRE DATE: 28/01/03		APPROVED BY: JDENNEHY DATE: 2005/03/11		
		MATERIAL NO. SDAE-6410-N		DOCUMENT NO. SDAE-6410-N		SHEET NO. 1 OF 4		
		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						



ENG. NO.	AE-6410-NA ( 501 )	AE-6410-NA ( 516 )	AE-6410-NK ( 516 )	AE-6410-NC ( 501 )	AE-6410-NA ( 509 )	AE-6410-NS ( 501 )	AE-6410-NA ( 503 )
DIMN. "D"	( 7.50 ±0.25 ) 295 ±0.00	( 7.50 ±0.25 ) 295 ±0.00	( 9.22 ) .363 REF	( 7.14 ±0.25 ) .281 ±0.00	( 7.50 ±0.25 ) 295 ±0.00	( 7.50 ±0.25 ) 295 ±0.00	( 7.50 ±0.25 ) 295 ±0.00
DIMN. "C"	( 14.22 ) / .560	( 14.22 ) / .560	( 15.88 ) / .625	( 20.32 ) / .800	( 14.22 ) / .560	( 16.51 ) / .649	( 14.22 ) / .560
DIMN. "F"	( 3.56 ) / .140 REF	( 3.56 ) / .140 REF	( 3.48 ±0.25 ) .137 ±0.00	( 10.00 ) / .394 REF	( 3.56 ) / .140 REF	( 5.84 ) / .230 REF	( 3.56 ) / .140 REF
PLATING	GOLD MIN. (0.0005)/.000020 OVER (0.00076)/.000030 NICKEL MIN.	GOLD MIN. (0.00025)/.000010 OVER (0.00076)/.000030 NICKEL MIN.	GOLD MIN. (0.00025)/.000010 OVER (0.00076)/.000030 NICKEL MIN.	GOLD MIN. (0.00051)/.000020 OVER (0.00076)/.000030 NICKEL MIN.	GOLD MIN. (0.00127)/.000050 OVER (0.00076)/.000030 NICKEL MIN.	GOLD MIN. (0.00051)/.000020 OVER (0.00076)/.000030 NICKEL MIN.	GOLD MIN. (0.00076)/.000030 OVER (0.00127)/.000050 NICKEL MIN.
NO. OF CIRCUITS	2	2	2	2	2	2	2
3	3 A(501) ↑ 2031	3 A(516) ↑ 2032	3 K(516) ↑ 0933	3 C(501) 38-00-5909	3 A(509) NOT TOOLED	3 A(503) NOT TOOLED	3 A(503) ↑ 7063
4	4 A(501) 2041	4 A(516) 2042	4 K(516) 0934	4 C(501) NOT TOOLED	4 A(509) 38-00-7251	4 A(503) 38-00-7666	4 A(503) ↑ 7064
5	5 A(501) 2051	5 A(516) 2052	5 K(516) 0935	5 C(501) ↑	5 A(509) NOT TOOLED	5 A(503) NOT TOOLED	5 A(503) ↑ 7065
6	6 A(501) 2061	6 A(516) 2062	6 K(516) 0936	6 C(501) ↑	6 A(509) NOT TOOLED	6 A(503) 38-00-7667	6 A(503) ↑ 7066
7	7 A(501) 2071	7 A(516) 2072	7 K(516) 0937	7 C(501) ↑	7 A(509) NOT TOOLED	7 A(503) NOT TOOLED	7 A(503) ↓ 7067
8	8 A(501) 2081	8 A(516) 2082	8 K(516) 0938	8 C(501) ↑	8 A(509) NOT TOOLED	8 A(503) 38-00-7068	8 A(503) ↑ 7068
9	9 A(501) 2091	9 A(516) 2092	9 K(516) 0939	9 C(501) ↑	9 A(509) NOT TOOLED	9 A(503) NOT TOOLED	9 A(503) NOT TOOLED
10	10 A(501) 2101	10 A(516) 2102	10 K(516) 0940	10 C(501) ↑	10 A(509) NOT TOOLED	10 A(503) NOT TOOLED	10 A(503) NOT TOOLED
11	11 A(501) 2111	11 A(516) 2112	11 K(516) 0941	11 C(501) ↑	11 A(509) NOT TOOLED	11 A(503) NOT TOOLED	11 A(503) NOT TOOLED
12	12 A(501) 2121	12 A(516) 2122	12 K(516) 0942	12 C(501) ↑	12 A(509) NOT TOOLED	12 A(503) 38-00-7072	12 A(503) NOT TOOLED
13	13 A(501) 2131	13 A(516) 2132	13 K(516) 0943	13 C(501) ↑	13 A(509) NOT TOOLED	13 A(503) NOT TOOLED	13 A(503) NOT TOOLED
14	14 A(501) 2141	14 A(516) 2142	14 K(516) 0944	14 C(501) ↑	14 A(509) NOT TOOLED	14 A(503) 38-00-7074	14 A(503) NOT TOOLED
15	15 A(501) 2151	15 A(516) 2152	15 K(516) 0945	15 C(501) ↑	15 A(509) NOT TOOLED	15 A(503) NOT TOOLED	15 A(503) NOT TOOLED
16	16 A(501) 2161	16 A(516) 2162	16 K(516) 0946	16 C(501) ↑	16 A(509) NOT TOOLED	16 A(503) NOT TOOLED	16 A(503) NOT TOOLED
17	17 A(501) 2171	17 A(516) 2172	17 K(516) 0947	17 C(501) ↑	17 A(509) NOT TOOLED	17 A(503) NOT TOOLED	17 A(503) NOT TOOLED
18	18 A(501) 2181	18 A(516) 2182	18 K(516) 0948	18 C(501) ↑	18 A(509) NOT TOOLED	18 A(503) NOT TOOLED	18 A(503) NOT TOOLED
19	19 A(501) 2191	19 A(516) 2192	19 K(516) 0949	19 C(501) ↑	19 A(509) NOT TOOLED	19 A(503) NOT TOOLED	19 A(503) NOT TOOLED
20	20 A(501) 2201	20 A(516) 2202	20 K(516) 0950	20 C(501) ↑	20 A(509) NOT TOOLED	20 A(503) 38-00-7080	20 A(503) NOT TOOLED
21	21 A(501) 2211	21 A(516) 2212	21 K(516) 0951	21 C(501) ↑	21 A(509) NOT TOOLED	21 A(503) NOT TOOLED	21 A(503) NOT TOOLED
22	22 A(501) 2221	22 A(516) 2222	22 K(516) 0952	22 C(501) ↑	22 A(509) NOT TOOLED	22 A(503) NOT TOOLED	22 A(503) NOT TOOLED
23	23 A(501) 2231	23 A(516) 2232	23 K(516) 0953	23 C(501) ↑	23 A(509) NOT TOOLED	23 A(503) NOT TOOLED	23 A(503) NOT TOOLED
24	24 A(501) 2241	24 A(516) 2242	24 K(516) 0954	24 C(501) ↑	24 A(509) NOT TOOLED	24 A(503) 38-00-0441	24 A(503) NOT TOOLED
25	25 A(501) 2251	25 A(516) 2252	25 K(516) 0955	25 C(501) ↑	25 A(509) NOT TOOLED	25 A(503) NOT TOOLED	25 A(503) NOT TOOLED
26	26 A(501) 2261	26 A(516) 2262	26 K(516) 0956	26 C(501) ↑	26 A(509) NOT TOOLED	26 A(503) NOT TOOLED	26 A(503) NOT TOOLED
27	27 A(501) ↓ 2271	27 A(516) ↓ 2272	27 K(516) ↓ 0957	27 C(501) ↓	27 A(509) NOT TOOLED	27 A(503) NOT TOOLED	27 A(503) NOT TOOLED
28	AE-6410-294509 22-29-2281	AE-6410-294516 22-29-2282	AE-6410-294516 38-00-0958	AE-6410-294509 NOT TOOLED	AE-6410-294509 NOT TOOLED	AE-6410-294509 NOT TOOLED	AE-6410-294509 NOT TOOLED

SEE SHEET 1 IEC NO: E2009-043 2009/02/24 DRAWN: BMAGUIRE CHKD: BMAGUIRE APPR: BMAGUIRE 2009/02/24 DESCRIPTION REV	QUALITY SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE	SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION
	$\nabla=0$ $\nabla=0$	m/m    INCH 4 PLACES ± --- ± --- 3 PLACES ± --- ± .010 2 PLACES ± 0.25 ± .014 1 PLACE ± 0.35 ± --- ANGULAR ± .5 °	MM/IN	4:1	METRIC	
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DRAWN BY: T. MAHON    DATE: 28/01/03 CHECKED BY: BMAGUIRE    DATE: 28/01/03 APPROVED BY: JDENNEHY    DATE: 2005/03/11	TITLE	WAFER, FRICTION LOCK KK (2.54)/.100 FOR (0.64)/.025 SQ. PINS	
			MATERIAL NO.    DOCUMENT NO. SEE CHART    SDAE-6410-N	MOLEX INCORPORATED MOLEX INCORPORATED		SHEET NO. 3 OF 4

10 9 8 7 6 5 4 3 2 1

### VOIDED OPTION

PART No.	ENG No.	CKT SIZE	VOID LOCATION	DIM A	DIM B	DIM D
38-00-7222	A-6410-3A-2	3	2	(5.08 ±0.10) / .200 ±.004	(7.62) / .300	(7.50) / .295
4749	-4A-3	4	3	(7.62 ±0.13) / .300 ±.005	(10.16) / .400	(7.50) / .295
0611	-5A-3	5	3	(10.16 ±0.13) / .400 ±.005	(12.70) / .500	(7.50) / .295
0089	-6A-3	6	3	(12.70 ±0.13) / .500 ±.005	(15.24) / .600	(7.50) / .295
0090	-6A-51	6	3,4,5	(12.70 ±0.13) / .500 ±.005	(15.24) / .600	(7.50) / .295
5370	-15A-02	15	2	(35.56 ±0.13) / 1.400 ±.005	(38.10) / 1.500	(7.50) / .295
5371	-19A-12	19	12	(45.72 ±0.15) / 1.800 ±.006	(48.26) / 1.900	(7.50) / .295
7688	-12A-09	12	9	(27.94 ±0.13) / 1.100 ±.005	(30.48) / 1.200	(7.50) / .295

ADD VOIDED OPTION EEC NO: E2009-0413 DRAWN: BMAGUIRE CHYD: 2009/02/24 APPR: BMAGUIRE 2009/02/24	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN	SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION		
				mm	INCH	DRAWN BY T. MAHON	DATE 28/01/03	TITLE WAFER, FRICTION LOCK KK (2.54) / .100 FOR (0.64) / .025 SQ. PINS	
		4 PLACES	± ---	± ---	3 PLACES	± ---	± .010		CHECKED BY BMAGUIRE
		2 PLACES	± 0.25	± .014	1 PLACE	± 0.35	± ---	APPROVED BY JDENNEHY	DATE 2005/03/11
ANGULAR ± .5 °		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE	DOCUMENT NO.	SHEET NO. 4 OF 4			

9 8 7 6 5 4 3 2 1