

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number:

0022292041

Status:

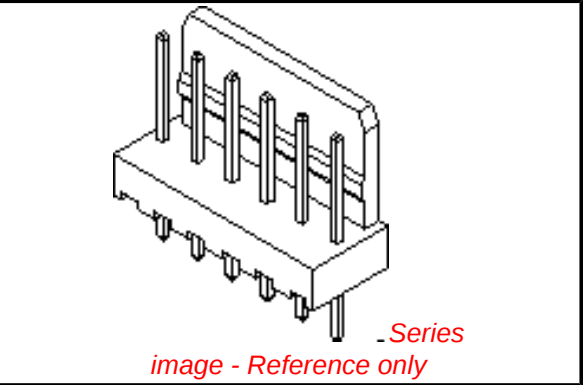
Active

Overview:

kk

Description:

2.54mm (.100") Pitch KK® Wire-to-Board Header, Vertical, with Friction Lock, 4 Circuits, Gold (Au) Plating



Documents:

3D Model

Drawing (PDF)

Product Specification PS-10-07 (PDF)

Product Specification PS-99020-0088 (PDF)

RoHS Certificate of Compliance (PDF)

Agency Certification		
CSA		LR19980
UL		E29179
General		
Product Family		PCB Headers
Series		6410
Application		Wire-to-Board
Overview		kk
Product Name		KK®

Physical		
Breakaway		No
Circuits (Loaded)		4
Circuits (maximum)		4
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		Gold
Material - Plating Termination		Gold
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)		20
Plating min: Mating (µm)		0.5
Plating min: Termination (µin)		20
Plating min: Termination (µm)		0.5
Polarized to Mating Part		Yes
Polarized to PCB		No

EU RoHS

ELV and RoHS

Compliant

REACH SVHC

Not Reviewed

Halogen-Free

Status

Halogen-Free

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

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

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	230

Material Info

Old Part Number	AE-6410-04A(501)
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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

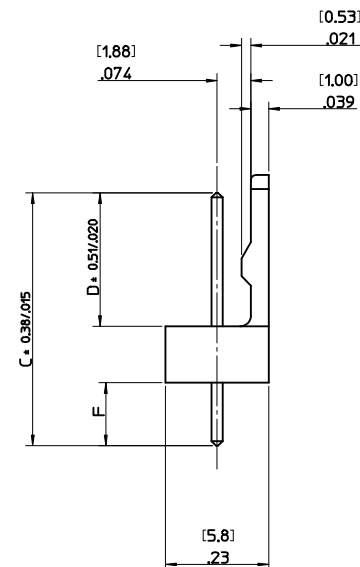
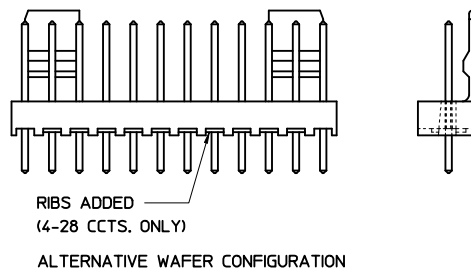
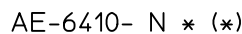
This document was generated on 05/24/2010

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

2.54 ± 0.05] TYP
1.00 ± 0.002 NON-ACCUM.

Ø [1.19 ± 0.05] TYP
0.47 ± 0.002

RECOMMENDED P.C.B. HOLE DIMENSIONS
(STANDARD SERIES)



- NOTES:

1. WAFER 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 RAMPs ON 7-28 CCTS, AS SHOWN.
7. PRODUCT SPECIFICATION: PS-99020-0087
8. PCB THICKNESS 1.6MM

ADD VOIDED OPTION EC NO: E2009-0413 DRAWN BY: BMAGUIRE CHKD: BMAGUIRE APPR: BMAGUIRE 2009/02/24 2009/02/24 2009/02/24 BB	QUALITY SYMBOLS	▼=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table><tr><td></td><td>mm</td><td>INCH</td></tr><tr><td>4 PLACES</td><td>± ---</td><td>± ---</td></tr><tr><td>3 PLACES</td><td>± ---</td><td>± .010</td></tr><tr><td>2 PLACES</td><td>± 0.25</td><td>± .014</td></tr><tr><td>1 PLACE</td><td>± 0.35</td><td>± ---</td></tr><tr><td colspan="3">ANGULAR ± .5 °</td></tr></table>		mm	INCH	4 PLACES	± ---	± ---	3 PLACES	± ---	± .010	2 PLACES	± 0.25	± .014	1 PLACE	± 0.35	± ---	ANGULAR ± .5 °			DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
					mm	INCH																					
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				MM/IN		4:1	METRIC																				
				DRAWN BY	DATE	TITLE																					
				T. MAHON	28/01/03																						
CHECKED BY	DATE	WAFER, FRICTION LOCK KK (2.54)/.100 FOR (0.64)/.025 SQ. PINS																									
BMAGUIRE	28/01/03																										
APPROVED BY	DATE	MOLEX MOLEX INCORPORATED																									
JDENNEHY	2005/03/11																										
MATERIAL NO.	DOCUMENT NO.	SHEET NO.																									
SEE CHART	SDAE-6410-N																										
SIZE	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																										
A2																											

ENG. NO.		AE-6410-NA (102)			AE-6410-NC (102)			AE-6410-ND (102)			AE-6410-NH (102)			AE-6410-NJ (102)			AE-6410-NL (102)		
DIMN. "D"		(7.50 ±0.25) .295 ±0.010			(7.14 ±0.25) .281 ±0.010			(8.05 ±0.25) .317 ±0.010			(7.49 ±0.25) .295 ±0.010			(18.80 ±0.38) .740 ±0.015			(8.50 ±0.38) .335 ±0.015		
DIMN. "C"		(14.22) / .560			(20.32) / .800			(14.22) / .560			(14.98) / .590			(25.40) / 1.000			(23.80) / .937		
DIMN. "F"		(3.56) / .140 REF			(10.00) / .394 REF			(2.99) .118 REF			(4.32) / .170 REF			(3.43) / .135 REF			(12.13) / .477 REF		
PLATING		TIN MIN. (0.005)/.0002 OVER (0.0025)/.0001 COPPER MIN.			TIN MIN. (0.005)/.0002 OVER (0.0025)/.0001 COPPER MIN.			TIN MIN. (0.005)/.0002 OVER (0.0025)/.0001 COPPER MIN.			TIN MIN. (0.005)/.0002 OVER (0.0025)/.0001 COPPER MIN.			TIN MIN. (0.005)/.0002 OVER (0.0025)/.0001 COPPER MIN.			TIN MIN. (0.005)/.0002 OVER (0.0025)/.0001 COPPER MIN.		
NO. OF CIRCUITS	2	AE-6410-2A(102)	22-27-2021		AE-6410-2C(102)	38-00-6292		AE-6410-2D(102)	38-00-5882		AE-6410-2H(102)	38-00-6754		AE-6410-2J(102)	NOT TOOLED		AE-6410-2L(102)	NOT TOOLED	
	3	3 A(102)	▲ 2031		3 C(102)	▲ 6293		3 D(102)	▲ 5883		3 H(102)	NOT TOOLED		3 J(102)	NOT TOOLED		L(102)	▲	
	4	4 A(102)	2041		4 C(102)	6294		4 D(102)	5884		4 H(102)	22-27-2046		4 J(102)	NOT TOOLED		L(102)		
	5	5 A(102)	2051		5 C(102)	6295		5 D(102)	5885		5 H(102)	NOT TOOLED		5 J(102)	22-27-2057		L(102)		
	6	6 A(102)	2061		6 C(102)	6296		6 D(102)	5886		6 H(102)	▲		6 J(102)	NOT TOOLED		L(102)		
	7	7 A(102)	2071		7 C(102)	6297		7 D(102)	5887		7 H(102)	▲		7 J(102)	NOT TOOLED		L(102)		
	8	8 A(102)	2081		8 C(102)	6298		8 D(102)	5888		8 H(102)	▲		8 J(102)	22-27-2087		L(102)		
	9	9 A(102)	2091		9 C(102)	6299		9 D(102)	5889		9 H(102)	▲		9 J(102)	NOT TOOLED		L(102)		
	10	10 A(102)	2101		10 C(102)	6300		10 D(102)	5890		10 H(102)	▼		10 J(102)	▲		L(102)		
	11	11 A(102)	2111		11 C(102)	6301		11 D(102)	5891		11 H(102)	NOT TOOLED		11 J(102)			L(102)		
	12	12 A(102)	2121		12 C(102)	6302		12 D(102)	5892		12 H(102)	22-27-2126		12 J(102)			L(102)		
	13	13 A(102)	2131		13 C(102)	6303		13 D(102)	5893		13 H(102)	NOT TOOLED		13 J(102)			L(102)	▼	
	14	14 A(102)	2141		14 C(102)	6304		14 D(102)	5894		14 H(102)	▲		14 J(102)			L(102)	NOT TOOLED	
	15	15 A(102)	2151		15 C(102)	6305		15 D(102)	5895		15 H(102)			15 J(102)			L(102)	38-00-1736	
	16	16 A(102)	2161		16 C(102)	6306		16 D(102)	5896		16 H(102)			16 J(102)			L(102)	NOT TOOLED	
	17	17 A(102)	2171		17 C(102)	6307		17 D(102)	5897		17 H(102)			17 J(102)			L(102)	▲	
	18	18 A(102)	2181		18 C(102)	6308		18 D(102)	5898		18 H(102)			18 J(102)			L(102)		
	19	19 A(102)	2191		19 C(102)	▼ 6309		19 D(102)	5899		19 H(102)			19 J(102)			L(102)		
	20	20 A(102)	2201		20 C(102)	38-00-6310		20 D(102)	5900		20 H(102)			20 J(102)			L(102)		
	21	21 A(102)	2211		21 C(102)	NOT TOOLED		21 D(102)	5901		21 H(102)			21 J(102)			L(102)		
	22	22 A(102)	2221		22 C(102)	▲		22 D(102)	5902		22 H(102)			22 J(102)			L(102)		
	23	23 A(102)	2231		23 C(102)			23 D(102)	5903		23 H(102)			23 J(102)			L(102)		
	24	24 A(102)	2241		24 C(102)			24 D(102)	5904		24 H(102)			24 J(102)			L(102)		
	25	25 A(102)	2251		25 C(102)			25 D(102)	5905		25 H(102)			25 J(102)			L(102)		
	26	26 A(102)	2261		26 C(102)			26 D(102)	5906		26 H(102)			26 J(102)			L(102)		
	27	27 A(102)	▼ 2271		27 C(102)	▼		27 D(102)	▼ 5907		27 H(102)	▼		27 J(102)	▼		L(102)	▼	
	28	AE-6410-28A(102)	22-27-2281		AE-6410-28C(102)	NOT TOOLED		AE-6410-28D(102)	38-00-5908		AE-6410-28H(102)	NOT TOOLED		AE-6410-28J(102)	NOT TOOLED		AE-6410-28L(102)	NOT TOOLED	

SEE SHEET 1 EC NO: E2009-0413 DRWN: BMAGUIRE 2009/02/24 CHKD: 2009/02/24 APPR: BMAGUIRE 2009/02/24 REV: BB	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN		SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION																						
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DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE CHART SIZE A2		MATERIAL NO. SDAE-6410-N		DOCUMENT NO. SDAE-6410-N		SHEET NO. 2 OF 4																						

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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 $\pm$ 0.25) .295 $\pm$ 0.010	(7.50 $\pm$ 0.25) .295 $\pm$ 0.010	(9.22) REF .363	(7.14 $\pm$ 0.25) .281 $\pm$ 0.010	(7.50 $\pm$ 0.25) .295 $\pm$ 0.010	(7.50 $\pm$ 0.25) .295 $\pm$ 0.010	(7.50 $\pm$ 0.25) .295 $\pm$ 0.010
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 $\pm$ 0.25) .137 $\pm$ 0.010	(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. (0.0005)/.000020 OVER (0.00076)/.000030 NICKEL MIN.	GOLD MIN. (0.00076)/.000030 OVER (0.00127)/.000050 NICKEL MIN.
NO. OF CIRCUITS	2	AE-6410-2A(501) 22-29-2021	AE-6410-2A(516) 22-29-2022	AE-6410-2K(516) 38-00-0932	AE-6410-2C(501) NOT TOOLED	AE-6410-2A(509) 38-00-7250	AE-6410-2A(503) 38-00-7062
	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) 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 7064
	5	5 A(501) 2051	5 A(516) 2052	5 K(516) 0935	5 A(501) 38-00-7251	5 A(509) NOT TOOLED	5 A 7065
	6	6 A(501) 2061	6 A(516) 2062	6 K(516) 0936	6 C(501) 38-00-7251	6 S(501) 38-00-7667	6 A 7066
	7	7 A(501) 2071	7 A(516) 2072	7 K(516) 0937	7 C(501) 38-00-7251	7 A(509) NOT TOOLED	7 A 7067
	8	8 A(501) 2081	8 A(516) 2082	8 K(516) 0938	8 C(501) 38-00-7251	8 A(509) 38-00-7068	8 A 38-00-7068
	9	9 A(501) 2091	9 A(516) 2092	9 K(516) 0939	9 C(501) 38-00-7251	9 A(509) 38-00-7068	9 A NOT TOOLED
	10	10 A(501) 2101	10 A(516) 2102	10 K(516) 0940	10 C(501) 38-00-7251	10 A(509) 38-00-7068	10 A NOT TOOLED
	11	11 A(501) 2111	11 A(516) 2112	11 K(516) 0941	11 C(501) 38-00-7251	11 A(509) 38-00-7068	11 A NOT TOOLED
	12	12 A(501) 2121	12 A(516) 2122	12 K(516) 0942	12 C(501) 38-00-7251	12 A(509) 38-00-7068	12 A 38-00-7072
	13	13 A(501) 2131	13 A(516) 2132	13 K(516) 0943	13 C(501) 38-00-7251	13 A(509) 38-00-7068	13 A NOT TOOLED
	14	14 A(501) 2141	14 A(516) 2142	14 K(516) 0944	14 C(501) 38-00-7251	14 A(509) 38-00-7068	14 A 38-00-7074
	15	15 A(501) 2151	15 A(516) 2152	15 K(516) 0945	15 C(501) 38-00-7251	15 A(509) 38-00-7068	15 A NOT TOOLED
	16	16 A(501) 2161	16 A(516) 2162	16 K(516) 0946	16 C(501) 38-00-7251	16 A(509) 38-00-7068	16 A 38-00-7068
	17	17 A(501) 2171	17 A(516) 2172	17 K(516) 0947	17 C(501) 38-00-7251	17 A(509) 38-00-7068	17 A 38-00-7068
	18	18 A(501) 2181	18 A(516) 2182	18 K(516) 0948	18 C(501) 38-00-7251	18 A(509) 38-00-7068	18 A 38-00-7068
	19	19 A(501) 2191	19 A(516) 2192	19 K(516) 0949	19 C(501) 38-00-7251	19 A(509) 38-00-7068	19 A NOT TOOLED
	20	20 A(501) 2201	20 A(516) 2202	20 K(516) 0950	20 C(501) 38-00-7251	20 A(509) 38-00-7068	20 A 38-00-7080
	21	21 A(501) 2211	21 A(516) 2212	21 K(516) 0951	21 C(501) 38-00-7251	21 A(509) 38-00-7068	21 A NOT TOOLED
	22	22 A(501) 2221	22 A(516) 2222	22 K(516) 0952	22 C(501) 38-00-7251	22 A(509) 38-00-7068	22 A NOT TOOLED
	23	23 A(501) 2231	23 A(516) 2232	23 K(516) 0953	23 C(501) 38-00-7251	23 A(509) 38-00-7068	23 A NOT TOOLED
	24	24 A(501) 2241	24 A(516) 2242	24 K(516) 0954	24 C(501) 38-00-7251	24 A(509) 38-00-7068	24 A 38-00-0441
	25	25 A(501) 2251	25 A(516) 2252	25 K(516) 0955	25 C(501) 38-00-7251	25 A(509) 38-00-7068	25 A NOT TOOLED
	26	26 A(501) 2261	26 A(516) 2262	26 K(516) 0956	26 C(501) 38-00-7251	26 A(509) 38-00-7068	26 A 38-00-7068
	27	27 A(501) 2271	27 A(516) 2272	27 K(516) 0957	27 C(501) 38-00-7251	27 A(509) 38-00-7068	27 A(503) 38-00-7068
	28	AE-6410-28A(501) 22-29-2281	AE-6410-28A(516) 22-29-2282	AE-6410-28K(516) 38-00-0958	AE-6410-28C(501) NOT TOOLED	AE-6410-28A(509) NOT TOOLED	AE-6410-28A(503) NOT TOOLED

SEE SHEET 1 EC NO: E2009-0413 DRAWN: BMAGUIRE 2009/02/24 CHKD: 2009/02/24 APPR: BMAGUIRE 2009/02/24 BB	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table border="1"> <tr> <th></th> <th>mm</th> <th>INCH</th> </tr> <tr> <td>4 PLACES</td> <td>± .005</td> <td>± .0002</td> </tr> <tr> <td>3 PLACES</td> <td>± .010</td> <td>± .0004</td> </tr> <tr> <td>2 PLACES</td> <td>± .025</td> <td>± .0010</td> </tr> <tr> <td>1 PLACE</td> <td>± .035</td> <td>± .0014</td> </tr> <tr> <td colspan="3">ANGULAR ± .5 °</td> </tr> </table>			mm	INCH	4 PLACES	± .005	± .0002	3 PLACES	± .010	± .0004	2 PLACES	± .025	± .0010	1 PLACE	± .035	± .0014	ANGULAR ± .5 °			DIMENSION STYLE MM/IN	SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
			mm	INCH																					
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DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWN BY T. MAHON	DATE 28/01/03	TITLE WAFFER, FRICTION LOCK KK (2.54)/.100 FOR (0.64)/.025 SQ. PINS																					
		CHECKED BY BMAGUIRE	DATE 28/01/03	MOLEX INCORPORATED																					
		APPROVED BY JDENNEHY	DATE 2005/03/11	DOCUMENT NO. SDAE-6410-N																					
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B

A

F

E

D

C

B

A

10	9	8	7	6	5	4	3	2	1
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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 EC NO: E2009-0413 DRWN: BMAGUIRE CHKD: APPR: BMAGUIRE	DESCRIPTION REV	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM/IN	SCALE 4:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION	TITLE WAFER, FRICTION LOCK KK (2.54)/.100 FOR (0.64)/.025 SQ. PINS				
					DRAWN BY T. MAHON	DATE 28/01/03	MOLEX INCORPORATED						
					CHECKED BY BMAGUIRE	DATE 28/01/03							
					APPROVED BY JDENNEHY	DATE 2005/03/11	DOCUMENT NO. SDAE-6410-N						
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SEE TABLE		SHEET NO. 4 OF 4						
					SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							