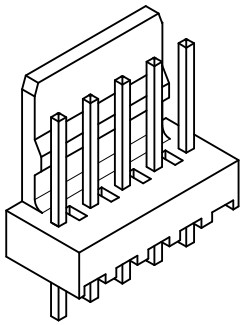
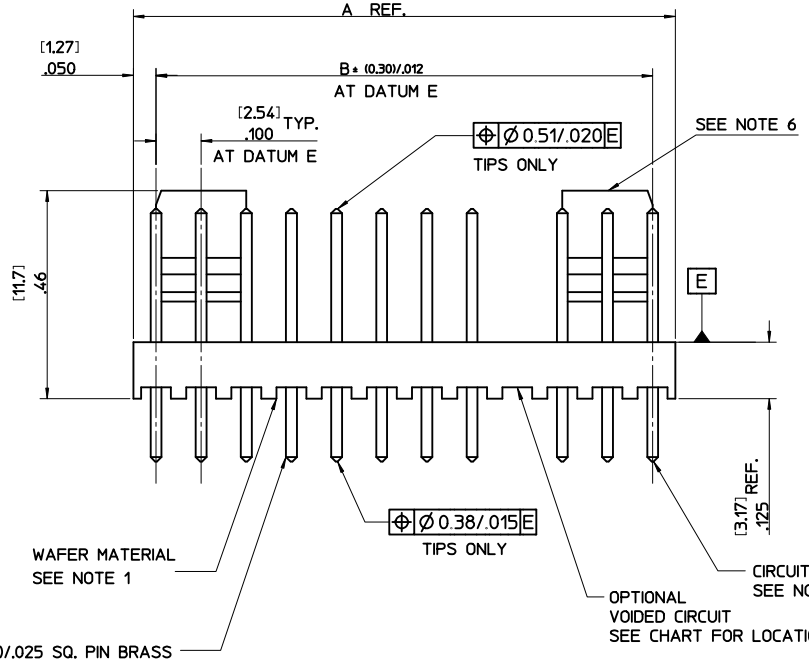
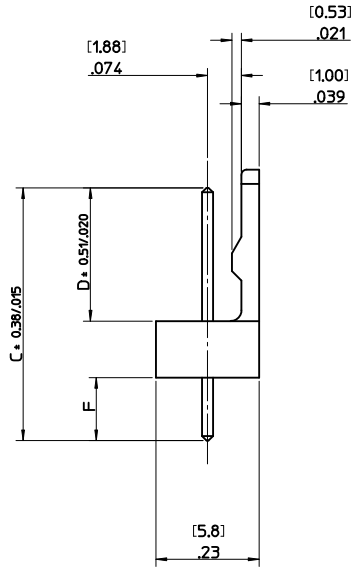
NO. OF CCTS	DIMN. "A"	DIMN. "B"
2	(5.08) .200	(2.54) .100
3	(7.62) .300	(5.08) .200
4	(10.16) .400	(7.62) .300
5	(12.70) .500	(10.16) .400
6	(15.24) .600	(12.70) .500
7	(17.78) .700	(15.24) .600
8	(20.32) .800	(17.78) .700
9	(22.86) .900	(20.32) .800
10	(25.40) 1.000	(22.86) .900
11	(27.94) 1.100	(25.40) 1.000
12	(30.48) 1.200	(27.94) 1.100
13	(33.02) 1.300	(30.48) 1.200
14	(35.56) 1.400	(33.02) 1.300
15	(38.10) 1.500	(35.56) 1.400
16	(40.64) 1.600	(38.10) 1.500
17	(43.18) 1.700	(40.64) 1.600
18	(45.72) 1.800	(43.18) 1.700
19	(48.26) 1.900	(45.72) 1.800
20	(50.80) 2.000	(48.26) 1.900
21	(53.34) 2.100	(50.80) 2.000
22	(55.88) 2.200	(53.34) 2.100
23	(58.42) 2.300	(55.88) 2.200
24	(60.96) 2.400	(58.42) 2.300
25	(63.50) 2.500	(60.96) 2.400
26	(66.04) 2.600	(63.50) 2.500
27	(68.58) 2.700	(66.04) 2.600
28	(71.12) 2.800	(68.58) 2.700

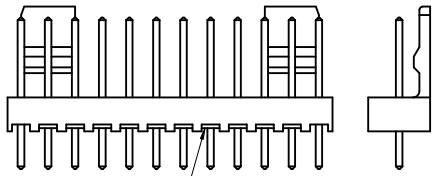






AE-6410- N * (*) - *

- NO. OF CCTS
- WAFER ASSY. OPTION
- PLATING TYPE
- VOIDED CIRCUIT CODE NO. CORRESPONDS TO CIRCUIT NO. VOIDED. MULTIPLE VOIDS START WITH 51 BLANK = NONE

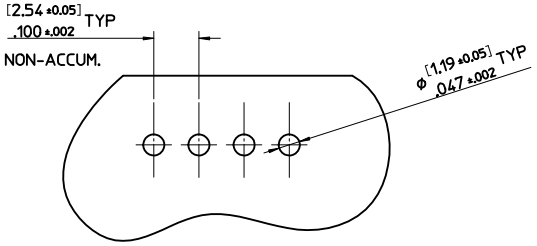


ALTERNATIVE WAFER CONFIGURATION

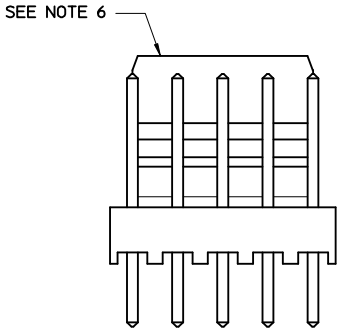
25-05656

NOTES:

1. WAFER MATERIAL: NYLON, UL94V-0, PIN MATERIAL: BRASS
2. FINISH:
   - 102 = OVERALL TIN: 0.00508/.000200 MIN. OVER 0.00254/.000100 MIN. COPPER
   - 154 = OVERALL TIN: 0.00254/.00100 MIN. OVER 0.00127/.000050 MIN. NICKEL
   - 501 = OVERALL GOLD: 0.00051/.000020 MIN. OVER 0.00076/.000030 MIN NICKEL
   - 503 = OVERALL GOLD 0.00076/.000030 MIN. OVER 0.00127/.000050 MIN NICKEL
   - 509 = OVERALL GOLD 0.00127/.000050 MIN. OVER 0.00076/.000030 MIN NICKEL
   - 516 = OVERALL GOLD 0.00025/.000010 MIN. OVER 0.00076/.000030 MIN NICKEL
3. THIS PART CONFORMS TO MOLEX PROD. SPEC. PS-99020-0088.
4. PACKAGING: PER PK-6373-001
5. PIN SOLDERABILITY PER MOLEX SPEC. SMES-152.
6. SINGLE RAMP ON 2-6 CCTS TWO RAMPS ON 7-28 CCTS, AS SHOWN.
7. PIN PUSH OUT FORCE: (0.907 Kg)/2lbs MIN.
8. PCB THICKNESS 1.6MM
9. WAFERS STACKABLE END TO END WITH (2.54)/.100 BETWEEN END PINS
10. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.
11. CIRCUIT 1 DESIGNATION IS USED TO DEFINE VOID LOCATION. CIRCUIT 1 MAY OR MAY NOT LINE UP WITH CIRCUIT 1 ON THE MATING HOUSING.



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



ADD/REVISE NOTES
EC NO: UCP2010-2318 2010/07/06
DRWN:MKIPPER 2010/07/07
CHKD:SSOUSEK 2010/07/07
APPR:FSMITH 2010/07/07
DESCRIPTION
REV BB1

QUALITY SYMBOLS
▼=0
Ⓒ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± .014
1 PLACE	± 0.35	± ---
ANGULAR ± .5 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE	MM/IN
SCALE	5:1
DESIGN UNITS	METRIC
	THIRD ANGLE PROJECTION
DRAWN BY	T. MAHON
DATE	28/01/03
CHECKED BY	BMAGUIRE
DATE	28/01/03
APPROVED BY	JDENNEHY
DATE	2005/03/11
MATERIAL NO.	SEE CHART
DOCUMENT NO.	SDAE-6410-N
SHEET NO.	1 OF 4
SIZE	A2

TITLE: WAFER, FRICTION LOCK KK (2.54)/.100 FOR (0.64)/.025 SQ. PINS

MOLEX INCORPORATED

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 ±.010		(7.14 ±0.25) .281 ±.010		(8.05 ±0.25) .317 ±.010		)(7.49 ±0.25) .295 ±.010		(18.80 ±0.38) .740 ±.015		(8.50 ±0.38) .335 ±.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		102		102		102		102		102		102	
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

REMOVE PLATING DIM
EC NO: UCP2010-2318 2010/07/06
DRWN:MKIPPER 2010/07/07
CH'KD:SSOUSEK 2010/07/07
APPR:FSMITH
DESCRIPTION
REV
BB1

QUALITY SYMBOLS
▼=0
Ⓔ=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± .014
1 PLACE	± 0.35	± ---
ANGULAR ± .5 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM/IN
SCALE: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

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

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDAE-6410-N
SHEET NO.: 2 OF 4

SIZE A2

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 ±.010	(7.50 ±0.25) .295 ±.010	(9.22) .363 REF	(7.14 ±0.25) .281 ±.010	(7.50 ±0.25) .295 ±.010	(7.50 ±0.25) .295 ±.010	(7.50 ±0.25) .295 ±.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 \0.25) .137 \.010	(10.00) /.394 REF	(3.56) / .140 REF	(5.84) / .230 REF	(3.56) / .140 REF
PLATING	501	516	516	501	509	501	503
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	NOT TOOLED	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	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	AE-6410-4S(501) 38-00-7666	4 A 7064
5	5 A(501) 2051	5 A(516) 2052	5 K(516) 0935	5 C(501)	5 A(509) NOT TOOLED	NOT TOOLED	5 A 7065
6	6 A(501) 2061	6 A(516) 2062	6 K(516) 0936	6 C(501)	6 A(509)	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)	7 A(509)	NOT TOOLED	7 A 7067
8	8 A(501) 2081	8 A(516) 2082	8 K(516) 0938	8 C(501)	8 A(509)		8 A 38-00-7068
9	9 A(501) 2091	9 A(516) 2092	9 K(516) 0939	9 C(501)	9 A(509)		9 A NOT TOOLED
10	10 A(501) 2101	10 A(516) 2102	10 K(516) 0940	10 C(501)	10 A(509)		10 A NOT TOOLED
11	11 A(501) 2111	11 A(516) 2112	11 K(516) 0941	11 C(501)	11 A(509)		11 A NOT TOOLED
12	12 A(501) 2121	12 A(516) 2122	12 K(516) 0942	12 C(501)	12 A(509)		12 A 38-00-7072
13	13 A(501) 2131	13 A(516) 2132	13 K(516) 0943	13 C(501)	13 A(509)		13 A NOT TOOLED
14	14 A(501) 2141	14 A(516) 2142	14 K(516) 0944	14 C(501)	14 A(509)		14 A 38-00-7074
15	15 A(501) 2151	15 A(516) 2152	15 K(516) 0945	15 C(501)	15 A(509)		15 A NOT TOOLED
16	16 A(501) 2161	16 A(516) 2162	16 K(516) 0946	16 C(501)	16 A(509)		16 A
17	17 A(501) 2171	17 A(516) 2172	17 K(516) 0947	17 C(501)	17 A(509)		17 A
18	18 A(501) 2181	18 A(516) 2182	18 K(516) 0948	18 C(501)	18 A(509)		18 A
19	19 A(501) 2191	19 A(516) 2192	19 K(516) 0949	19 C(501)	19 A(509)		19 A NOT TOOLED
20	20 A(501) 2201	20 A(516) 2202	20 K(516) 0950	20 C(501)	20 A(509)		20 A 38-00-7080
21	21 A(501) 2211	21 A(516) 2212	21 K(516) 0951	21 C(501)	21 A(509)		21 A NOT TOOLED
22	22 A(501) 2221	22 A(516) 2222	22 K(516) 0952	22 C(501)	22 A(509)		22 A NOT TOOLED
23	23 A(501) 2231	23 A(516) 2232	23 K(516) 0953	23 C(501)	23 A(509)		23 A NOT TOOLED
24	24 A(501) 2241	24 A(516) 2242	24 K(516) 0954	24 C(501)	24 A(509)		24 A 38-00-0441
25	25 A(501) 2251	25 A(516) 2252	25 K(516) 0955	25 C(501)	25 A(509)		25 A NOT TOOLED
26	26 A(501) 2261	26 A(516) 2262	26 K(516) 0956	26 C(501)	26 A(509)		26 A
27	27 A(501) 2271	27 A(516) 2272	27 K(516) 0957	27 C(501)	27 A(509)		27 A(503)
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	NOT TOOLED	AE-6410-28A(503) NOT TOOLED

REMOVE PLATING DIM
EC NO: UCP2010-2318 2010/07/06
DRWN:MKIPPER 2010/07/07
CHKD:SSOUSEK 2010/07/07
APPR:FSMITH 2010/07/07
DESCRIPTION
BB1
REV

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± .014
1 PLACE	± 0.35	± ---

ANGULAR ± .5 °

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM/IN
SCALE: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

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

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDAE-6410-N
SHEET NO.: 3 OF 4

SIZE A2

VOIDED CIRCUIT OPTION

PART No.	ENG No.	CKT SIZE	VOID LOCATION	DIM D	DIM F (REF)	PLATING
38-00-7222	AE-6410-3A(102)-2	3	2	(7.50)/.295	(3.56)/.140	102
38-00-4749	-4A(102)-3	4	3	(7.50)/.295	(3.56)/.140	102
38-00-0611	-5A(102)-3	5	3	(7.50)/.295	(3.56)/.140	102
38-00-0089	-6A(102)-3	6	3	(7.50)/.295	(3.56)/.140	102
38-00-0090	-6A(102)-51	6	3,4,5	(7.50)/.295	(3.56)/.140	102
38-00-5370	-15A(102)-02	15	2	(7.50)/.295	(3.56)/.140	102
38-00-5371	-19A(102)-12	19	12	(7.50)/.295	(3.56)/.140	102
38-00-7688	-12A(102)-09	12	9	(7.50)/.295	(3.56)/.140	102

CORRECT ENG. NO.
EC NO: UCP2010-2318 2010/07/06
DRWN:MKIPPER 2010/07/07
CH'KD:SSOUSEK 2010/07/07
APPR:FSMITH 2010/07/07
DESCRIPTION
BB1
REV

QUALITY SYMBOLS
▼=0
Ⓒ▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± .014
1 PLACE	± 0.35	± ---
ANGULAR ± .5 °		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM/IN
SCALE: 4:1
DESIGN UNITS: METRIC
THIRD ANGLE PROJECTION

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

MOLEX INCORPORATED

MATERIAL NO.: SEE TABLE
DOCUMENT NO.: SDAE-6410-N
SHEET NO.: 4 OF 4
SIZE: A3