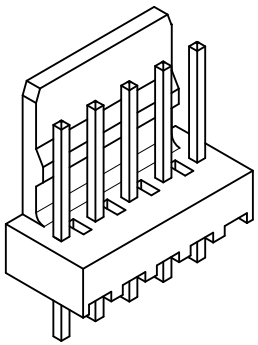
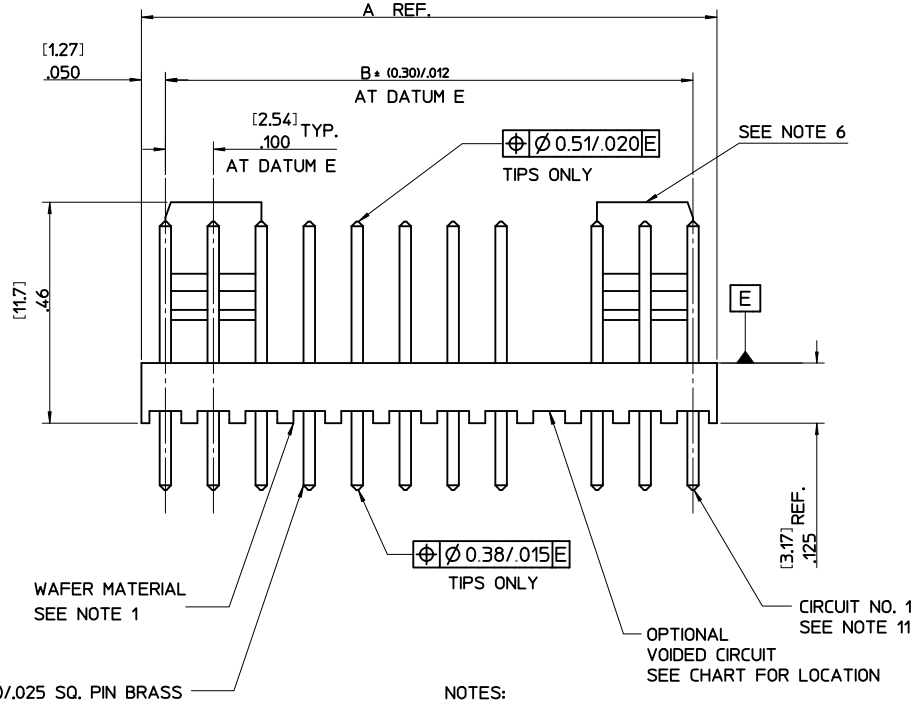
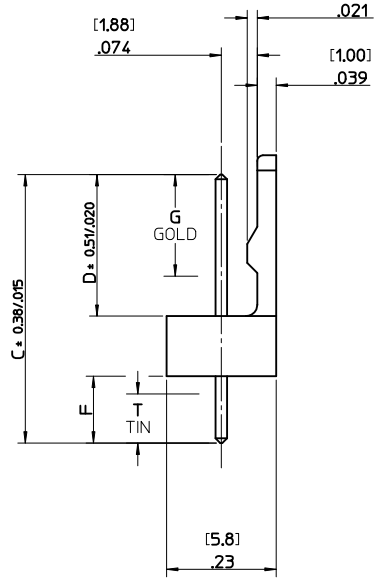
NO. OF CCTS	DIMN. "A"	DIMN. "B"
2	(5.08) .200	(2.54) .100
3	(7.62) .300	(5.08) .200
4	(10.16) .400	(7.62) .300
5	(12.70) .500	(10.16) .400
6	(15.24) .600	(12.70) .500
7	(17.78) .700	(15.24) .600
8	(20.32) .800	(17.78) .700
9	(22.86) .900	(20.32) .800
10	(25.40) 1.000	(22.86) .900
11	(27.94) 1.100	(25.40) 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

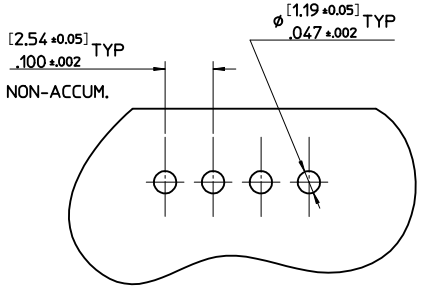




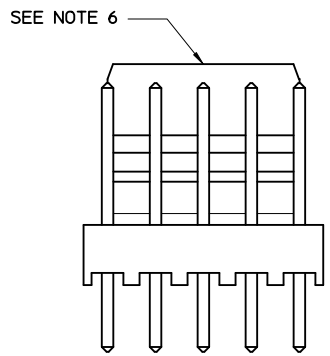


AE-6410- N * (*) - *

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



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



NOTES:

1. WAFER MATERIAL: NYLON, UL94V-0, PIN MATERIAL: BRASS
2. FINISH:
   - 154 = OVERALL TIN: 0.00254/.00100 MIN. OVER 0.00127/.000050 MIN. NICKEL
   - 197 = OVERALL REFLOWED MATTE TIN: 0.00152/.00060 MIN. OVER 0.00127/.000050 MIN. NICKEL
   - 222 = OVERALL MATTE TIN: 0.00254/.00100 MIN. OVER 0.00127/.000050 MIN NICKEL
   - 228 = SELECT GOLD 0.00076/.000030 MIN., SELECT MATTE TIN: 0.00254/.00100 OVER 0.00127/.000050 MIN NICKEL
   - 231 = SELECT GOLD 0.00127/.000050 MIN., SELECT MATTE TIN: 0.00254/.00100 OVER 0.00076/.000030 MIN NICKEL
   - 241 = SELECT GOLD 0.00051/.000020 MIN., SELECT MATTE TIN: 0.00254/.00100 OVER 0.00076/.000030 MIN NICKEL
3. THIS PART CONFORMS TO MOLEX PROD. SPEC. PS-99020-0088.
4. PACKAGING: PER PK-6410-002
5. PIN SOLDERABILITY PER MOLEX SPEC. SMES-152.
6. SINGLE RAMP ON 2-6 CCTS TWO RAMPS ON 7-16 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.

CHANGE PLATING
EC NO: UCP2012-1821 2011/12/22
DRWN:MMSTROH 2012/01/03
CH'KD:MKIPPER 2012/02/02
APPR:FSMITH
DESCRIPTION
REV BC

QUALITY SYMBOLS
E =0
E =0
E =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

		DATE
DRAWN BY	T. MAHON	28/01/03
CHECKED BY	BMAGUIRE	28/01/03
APPROVED BY	JDENNEHY	2005/03/11
MATERIAL NO.	SEE CHART	

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

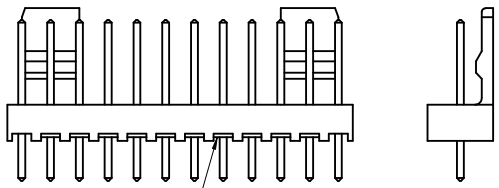
molex MOLEX INCORPORATED

DOCUMENT NO. SDAE-6410-N
SHEET NO. 1 OF 4

SIZE C

ENG. NO.	AE-6410-NA (222)	AE-6410-NC (197)	AE-6410-NH (197)	AE-6410-NJ (197)	AE-6410-NL (154)	AE-6410-NM (154)
DIMN. "D"	(7.50) .295	(7.14) .281	(7.49) .295	(18.80) .740	(8.58) .338	(7.62) .300
DIMN. "C"	(14.22) / .560	(20.32) / .800	(14.98) / .590	(25.40) / 1.000	(23.88) / .940	(20.32) / .800
DIMN. "F"	(3.56) / .140 REF	(10.00) / .394 REF	(4.32) / .170 REF	(3.43) / .135 REF	(12.13) / .477 REF	(9.53) / .375 REF
DIMN. "G"	N/A	N/A	N/A	N/A	N/A	N/A
DIMN. "T"	OVERALL	OVERALL	OVERALL	OVERALL	OVERALL	OVERALL
PLATING	222	197	197	197	154	154

NO. OF CIRCUITS	AE-6410-NA (222)	AE-6410-NC (197)	AE-6410-NH (197)	AE-6410-NJ (197)	AE-6410-NL (154)	AE-6410-NM (154)
2	AE-6410-2A(222) 22-27-2021	AE-6410-2C(197) 38-00-6292	AE-6410-2H(197) 38-00-6754	AE-6410-2J(197) NOT TOOLED	AE-6410-2L(154) NOT TOOLED	AE-6410-2M(154) NOT TOOLED
3	3 A(222) 2031	3 C(197) 6293	3 H(197) NOT TOOLED	3 J(102) NOT TOOLED	3 L(154) 26-01-3195	3 M(154) 26-01-3179
4	4 A(222) 2041	4 C(197) 6294	4 H(197) 22-27-2046	4 J(102) NOT TOOLED	4 L(154) NOT TOOLED	4 M(154) NOT TOOLED
5	5 A(222) 2051	5 C(197) 6295	5 H(197) NOT TOOLED	5 J(102) 22-27-2057	5 L(154)	5 M(154)
6	6 A(222) 2061	6 C(197) 6296	6 H(197)	6 J(102) NOT TOOLED	6 L(154)	6 M(154)
7	7 A(222) 2071	7 C(197) 6297	7 H(197)	7 J(102) NOT TOOLED	7 L(154)	7 M(154)
8	8 A(222) 2081	8 C(197) 6298	8 H(197)	8 J(102) 22-27-2087	8 L(154)	8 M(154)
9	9 A(222) 2091	9 C(197) 6299	9 H(197)	9 J(102) NOT TOOLED	9 L(154)	9 M(154)
10	10 A(222) 2101	10 C(197) 6300	10 H(197)	10 J(102)	10 L(154)	10 M(154)
11	11 A(222) 2111	11 C(197) 6301	11 H(197) NOT TOOLED	11 J(102)	11 L(154)	11 M(154)
12	12 A(222) 2121	12 C(197) 6302	12 H(197) 22-27-2126	12 J(102)	12 L(154)	12 M(154)
13	13 A(222) 2131	13 C(197) 6303	13 H(197) NOT TOOLED	13 J(102)	13 L(154)	13 M(154)
14	14 A(222) 2141	14 C(197) 6304	14 H(197)	14 J(102)	14 L(154) NOT TOOLED	14 M(154)
15	15 A(222) 2151	15 C(197) 6305	15 H(197)	15 J(102)	15 L(154) 38-00-1736	15 M(154)
16	AE-6410-16A(222) 22-27-2161	AE-6410-16C(197) 38-00-6306	AE-6410-16H(197) NOT TOOLED	AE-6410-16J(197) NOT TOOLED	AE-6410-16L(154) NOT TOOLED	AE-6410-16M(154) NOT TOOLED



RIBS ADDED
(4-16 CCTS. ONLY)

ALTERNATIVE WAFER CONFIGURATION

SEE SHEET 1
EC NO: UCP2012-1821 2011/12/22
DRWN:MMSTROH 2012/01/03
CH'KD:MKIPPER
APPR:FSMITH 2012/02/02
DESCRIPTION
BC
REV

QUALITY SYMBOLS
F =0
E =0
P =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
MATERIAL NO.: SEE CHART

TITLE: WAFER, FRICTION LOCK KK (2.54)/.100 FOR (0.64)/.025 SQ. PINS
MOLEX INCORPORATED
DOCUMENT NO.: SDAE-6410-N
SHEET NO.: 2 OF 4
SIZE: C

ENG. NO.	AE-6410-NA (241)	AE-6410-NC (241)	AE-6410-NA (231)	AE-6410-NS (241)	AE-6410-NA (228)
DIMN. "D"	(7.50) .295	(7.14) .281	(7.50) .295	(7.50) .295	(7.50) .295
DIMN. "C"	(14.22)/ .560	(20.32)/.800	(14.22)/560	(16.51)/650	(14.22)/.560
DIMN. "F"	(3.56)/ .140 REF	(10.00)/.394 REF	(3.56)/ .140 REF	(5.84)/ .230 REF	(3.56)/.140 REF
DIMN. "G"	(3.56)/.140	(5.08)/.200	(3.56)/.140	(5.08)/.200	(3.56)/.140
DIMN. "T"	(3.43)/.135	(5.08)/.200	(3.43)/.135	(5.08)/.200	(3.43)/.135
PLATING	241	241	231	241	228

NO. OF CIRCUITS	AE-6410-NA (241)	AE-6410-NC (241)	AE-6410-NA (231)	AE-6410-NS (241)	AE-6410-NA (228)
2	AE-6410-2A(241) 22-29-2021	AE-6410-2C(241) NOT TOOLED	AE-6410-2A(231) 38-00-7250	NOT TOOLED	AE-6410-2A(228) 38-00-7062
3	3 A(241) 2031	3 C(241) 38-00-5909	3 A(231) NOT TOOLED	NOT TOOLED	3 A(228) 7063
4	4 A(241) 2041	4 C(241) NOT TOOLED	4 A(231) 38-00-7251	AE-6410-4S(241) 38-00-7666	4 A 7064
5	5 A(241) 2051	5 C(241)	5 A(231) NOT TOOLED	NOT TOOLED	5 A 7065
6	6 A(241) 2061	6 C(241)	6 A(231)	6 S(241) 38-00-7667	6 A 7066
7	7 A(241) 2071	7 C(241)	7 A(231)	NOT TOOLED	7 A 7067
8	8 A(241) 2081	8 C(241)	8 A(231)		8 A 38-00-7068
9	9 A(241) 2091	9 C(241)	9 A(231)		9 A NOT TOOLED
10	10 A(241) 2101	10 C(241)	10 A(231)		10 A NOT TOOLED
11	11 A(241) 2111	11 C(241)	11 A(231)		11 A NOT TOOLED
12	12 A(241) 2121	12 C(241)	12 A(231)		12 A 38-00-7072
13	13 A(241) 2131	13 C(241)	13 A(231)		13 A NOT TOOLED
14	14 A(241) 2141	14 C(241)	14 A(231)		14 A 38-00-7074
15	15 A(241) 2151	15 C(241)	15 A(231)		15 A NOT TOOLED
16	AE-6410-16A(241) 22-29-2161	AE-6410-16C(241) NOT TOOLED	AE-6410-16A(231) NOT TOOLED	NOT TOOLED	AE-6410-16A(228) NOT TOOLED

SEE SHEET 1
EC NO: UCP2012-1821 2011/12/22
DRWN:MMSTROH 2012/01/03
CH'KD:MKIPPER
APPR:FSMITH 2012/02/02
DESCRIPTION
BC
REV

QUALITY SYMBOLS
E1 =0
E2 =0
E3 =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: C

VOIDED CIRCUIT OPTION

ENG. NO.	AE-6410-NA(197)-*
DIM. D	7.50/.295
DIM. C	14.22 /.560
DIM. F (REF)	3.56 /.140
DIM. G	N/A
DIM. T	OVERALL
PLATING	197

PART No.	ENG No.	CKT SIZE	VOID LOCATION
38-00-7222	AE-6410-3A(197)-2	3	2
4749	-4A(197)-3	4	3
0611	-5A(197)-3	5	3
0089	-6A(197)-3	6	3
0090	-6A(197)-51	6	3,4,5
5370	-15A(197)-02	15	2
7688	-12A(197)-09	12	9

SEE SHEET 1
EC NO: UCP2012-1821 2011/12/22
DRWN:MMSTROH 2012/01/03
CH'KD:MKIPPER
APPR:FSMITH 2012/02/02
DESCRIPTION
BC
REV

QUALITY SYMBOLS
$\sqrt{F_A}$=0
$\sqrt{F_C}$=0
$\sqrt{F_P}$=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.: 4 OF 4

SIZE: B