Jameco Part Number 879650

2.54mm (.100") Pitch KK® Header

6410 Vertical Friction Lock

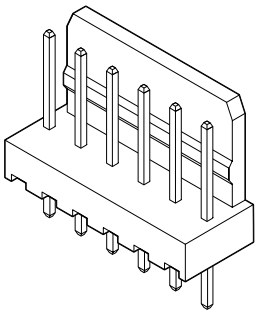
FEATURES AND SPECIFICATIONS

Features and Benefits
- Sizes 2 to 28 circuits
- Friction lock provides passive lock to connector with ramp
- Good in high vibration applications
- Higher backwall than the 6373 Series
- Various pin lengths available

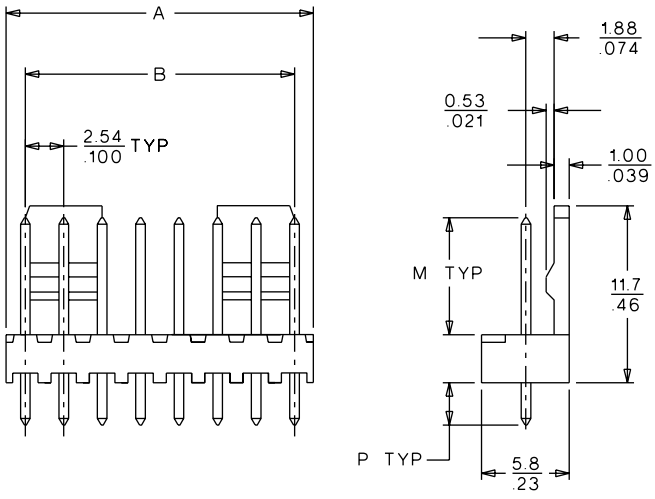
Reference Information
Product Specification: PS-10-07
Packaging: Bag
UL File No.: E29179
CSA File No.: LR19980
Mates With: 2695 with locking ramp, 6471 and 7880
Designed In: Inches

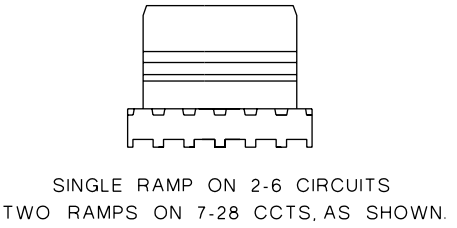
Electrical
Voltage: 250V
Current: 4.0A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 1500V
Insulation Resistance: 50K MΩ min.

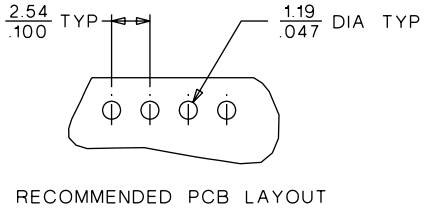
Physical
Housing: Nylon, UL 94V-0
Contact: Brass, 0.64mm (.025") square
Plating: See Table
Operating Temperature: 0 to +75˚C



CATALOG DRAWING (FOR REFERENCE ONLY)







ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.		Dimension			
	Tin	Gold	A	B	M	P
2	• 22-27-2021	• 22-29-2021	5.08 (.200)	2.54 (.100)	7.50 (.295)	3.56 (.140)
3	• 22-27-2031	• 22-29-2031	7.62 (.300)	5.08 (.200)	7.50 (.295)	3.56 (.140)
4	• 22-27-2041	• 22-29-2041	10.16 (.400)	7.62 (.300)	7.50 (.295)	3.56 (.140)
5	• 22-27-2051	• 22-29-2051	12.70 (.500)	10.16 (.400)	7.50 (.295)	3.56 (.140)
6	• 22-27-2061	• 22-29-2061	15.24 (.600)	12.70 (.500)	7.50 (.295)	3.56 (.140)
7	• 22-27-2071	• 22-29-2071	17.78 (.700)	15.24 (.600)	7.50 (.295)	3.56 (.140)
8	• 22-27-2081	• 22-29-2081	20.32 (.800)	17.78 (.700)	7.50 (.295)	3.56 (.140)
9	• 22-27-2091	• 22-29-2091	22.86 (.900)	20.32 (.800)	7.50 (.295)	3.56 (.140)
10	• 22-27-2101	• 22-29-2101	25.40 (1.000)	22.86 (.900)	7.50 (.295)	3.56 (.140)
11	• 22-27-2111	• 22-29-2111	27.94 (1.100)	25.40 (1.000)	7.50 (.295)	3.56 (.140)
12	• 22-27-2121	• 22-29-2121	30.48 (1.200)	27.94 (1.100)	7.50 (.295)	3.56 (.140)
13	• 22-27-2131	• 22-29-2131	33.02 (1.300)	30.48 (1.200)	7.50 (.295)	3.56 (.140)
14	• 22-27-2141	• 22-29-2141	35.56 (1.400)	33.02 (1.300)	7.50 (.295)	3.56 (.140)
15	• 22-27-2151	• 22-29-2151	38.10 (1.500)	35.56 (1.400)	7.50 (.295)	3.56 (.140)

Circuits	Order No.		Dimension			
	Tin	Gold	A	B	M	P
16	• 22-27-2161	• 22-29-2161	40.64 (1.600)	38.10 (1.500)	7.50 (.295)	3.56 (.140)
17	• 22-27-2171	• 22-29-2171	43.18 (1.700)	40.64 (1.600)	7.50 (.295)	3.56 (.140)
18	• 22-27-2181	• 22-29-2181	45.72 (1.800)	43.18 (1.700)	7.50 (.295)	3.56 (.140)
19	• 22-27-2191	• 22-29-2191	48.26 (1.900)	45.72 (1.800)	7.50 (.295)	3.56 (.140)
20	• 22-27-2201	• 22-29-2201	50.80 (2.000)	48.26 (1.900)	7.50 (.295)	3.56 (.140)
21	• 22-27-2211	• 22-29-2211	53.34 (2.100)	50.80 (2.000)	7.50 (.295)	3.56 (.140)
22	• 22-27-2221	• 22-29-2221	55.88 (2.200)	53.34 (2.100)	7.50 (.295)	3.56 (.140)
23	• 22-27-2231	• 22-29-2231	58.42 (2.300)	55.88 (2.200)	7.50 (.295)	3.56 (.140)
24	• 22-27-2241	• 22-29-2241	60.96 (2.400)	58.42 (2.300)	7.50 (.295)	3.56 (.140)
25	• 22-27-2251	• 22-29-2251	63.50 (2.500)	60.96 (2.400)	7.50 (.295)	3.56 (.140)
26	22-27-2261	22-29-2261	66.04 (2.600)	63.50 (2.500)	7.50 (.295)	3.56 (.140)
27	22-27-2271	22-29-2271	68.58 (2.700)	66.04 (2.600)	7.50 (.295)	3.56 (.140)
28	22-27-2281	22-29-2281	71.12 (2.800)	68.58 (2.700)	7.50 (.295)	3.56 (.140)

• US Standard Product, available through Molex franchised distributors

PRODUCT SPECIFICATION

1.0 SCOPE

This Product Specification covers the 2.54 mm (.100 inch) centerline (pitch) 0.64 mm (.025) square pin headers when mated with either printed circuit board (PCB) connectors or connectors terminated with 22 to 28 AWG wire using crimp technology.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME AND SERIES NUMBERS

Crimp Terminals: 2759, 41572, 6459
Crimp Housings: 2695
PCB Connectors: 4455, 42625
Headers: 4030, 4094, 6373, 7478, 42225, 42226, 42227, 42228, 42152, 42153, 42375, 42376, 42377, 42624.
Other products conforming to this specification are noted on the individual drawings.

2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

Terminal Material: Brass or Phos. Bronze (for Max performance use phos bronze material.)
Housing: Nylon or Polyester
Pins: Brass or Phos. Bronze
For more information on dimensions, materials, and plating see the individual drawings.

2.3 SAFETY AGENCY APPROVALS

UL File Number …….. E29179
CSA ……...LR19980

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

None

4.0 RATINGS

4.1 VOLTAGE

250 Volts

4.2 CURRENT AND APPLICABLE WIRES

(Current is dependent on connector size, contact material, plating, ambient temperature, printed circuit board characteristics and related factors. Actual current rating is application dependent and should be evaluated for each application.)

AWG	Amps (Max)	Outside Insulation Diameter
22	4.00	See Drawings
24	3.75	See Drawings
26	3.50	See Drawings
28	3.00	See Drawings

4.3 TEMPERATURE (ambient + 30° temp rise)

Operating: 0°C to +75°C
Nonoperating: - 40°C to +105°C

5.0 PERFORMANCE

5.1 ELECTRICAL REQUIREMENTS

DESCRIPTION	TEST CONDITION	REQUIREMENT
Contact Resistance (Low Level)	Mate connectors: apply a maximum voltage of 20 mV and a current of 100 mA.	10 milliohms MAXIMUM [initial]
Contact Resistance of Wire Termination (Low Level)	Terminate the applicable wire to the terminal and measure wire using a voltage of 20 mV and a current of 100 mA.	2 milliohms MAXIMUM [initial]
Insulation Resistance	Unmate & unmount connectors: apply a voltage of 500 VDC between adjacent terminals and between terminals to ground.	1000 Megohms MINIMUM
Dielectric Withstanding Voltage	Unmate connectors: apply a voltage of {two times the rated voltage plus 1000 volts} VAC for 1 minute between adjacent terminals and between terminals to ground.	No breakdown
Capacitance	Measure between adjacent terminals at 1 MHz.	2 picofarads MAXIMUM
Temperature Rise (via Current Cycling)	Mate connectors: measure the temperature rise at the rated current after: 1) 96 hours (steady state) 2) 240 hours (45 minutes ON and 15 minutes OFF per hour) 3) 96 hours (steady state)	Temperature rise: +30°C MAXIMUM

5.2 MECHANICAL REQUIREMENTS

DESCRIPTION	TEST CONDITION	REQUIREMENT
Connector Mate and Unmate Forces	Per circuit when mated to an .025 Sq. pin. Mate and unmate connector (male to female) at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.	1.95 N (0.438 lbf) MAXIMUM insertion force & 0.56 N (0.125 lbf) MINIMUM withdrawal force
Terminal Retention Force (in Housing)	Axial pullout force on the terminal in the housing at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute. (Forces will change with platings and materials.)	17.8 N (4.0 lbf) MINIMUM withdrawal force
Terminal Insertion Force (into Housing)	Apply an axial insertion force on the terminal at a rate of 25 ± 6 mm (1 ± ¼ inch). (Forces will change with platings and materials.)	6.67 N (1.5 lbf) MAXIMUM insertion force
Durability	Mate connectors up to 25 cycles at a maximum rate of 10 cycles per minute prior to Environmental Tests.	10 milliohms MAXIMUM (change from initial)
Vibration (Random)	Mate connectors and vibrate per EIA 364-28, test condition VII.	10 milliohms MAXIMUM (change from initial) & Discontinuity < 1 microsecond
Shock (Mechanical)	Mate connectors and shock at 50 g's with ½ sine wave (11 milliseconds) shocks in the ±X,±Y,±Z axes (18 shocks total).	10 milliohms MAXIMUM (change from initial]) & Discontinuity < 1 microsecond
Wire Pullout Force (Axial)	Apply an axial pullout force on the wire at a rate of 25 ± 6 mm (1 ± ¼ inch). (For maximum performance use Molex application tooling with stranded tinned copper wire)	22 awg = 44 N (10 lbf) 24 awg = 35 N (8 lbf) 26 awg = 26 N (6 lbf) 28 awg = 17 N (4 lbf) 30 awg = 13 N (3 lbf)
Normal Force	Apply a perpendicular force.	2.94 N (300 grams) average

5.3 ENVIRONMENTAL REQUIREMENTS

DESCRIPTION	TEST CONDITION	REQUIREMENT
Shock (Thermal)	Mate connectors; expose to 5 cycles of: Temperature °C — Duration (Minutes) -40 +0/-3 — 30 +25 ±10 — 5 MAXIMUM +105 +3/-0 — 30 +25 ±10 — 5 MAXIMUM	10 milliohms MAXIMUM (change from initial) & Visual: No Damage
Thermal Aging	Mate connectors; expose to: 96 hours at 105 ± 2°C	10 milliohms MAXIMUM (change from initial]) & Visual: No Damage
Humidity (Steady State)	Mate connectors: expose to a temperature of 40 ± 2°C with a relative humidity of 90-95% for 96 hours. Note: Remove surface moisture and air dry for 1 hour prior to measurements.	10 milliohms MAXIMUM (change from initial) & Dielectric Withstanding Voltage: No Breakdown at 500 VAC & Insulation Resistance: 1000 Megohms MINIMUM & Visual: No Damage
Humidity (Cyclic)	Mate connectors: cycle per EIA-364-31: 24 cycles at temperature 25 ± 3°C at 80 ± 5% relative humidity and 65 ± 3°C at 50 ± 5% relative humidity; dwell time of 1.0 hour; ramp time of 0.5 hours. {Note: Remove surface moisture and air dry for 1 hour prior to measurements.}	10 milliohms MAXIMUM (change from initial) & Dielectric Withstanding Voltage: No Breakdown at 500 VAC & Insulation Resistance: 1000 Megohms MINIMUM & Visual: No Damage
Solderability	Per SMES-152	Solder coverage: 95% MINIMUM (per SMES-152)

5.3 ENVIRONMENTAL REQUIREMENTS

DESCRIPTION	TEST CONDITION	REQUIREMENT
Solder Resistance	Dip connector terminal tails in solder: Solder Duration: 5 ± 0.5 seconds; Solder Temperature: 230 ± 5°C	Visual: No Damage to insulator material
Salt Spray	Mate connectors: Duration: 48 hours exposure; Atmosphere: salt spray from a 5% solution; Temperature: 35 +1/-2°C	10 milliohms MAXIMUM (change from initial) & Visual: No Damage
Cold Resistance	Mate connectors: Duration: 96 hours; Temperature: -40 ± 3°C	10 milliohms MAXIMUM (change from initial) & Visual: No Damage
Corrosive Atmosphere: Flowing Mixed Gas (FMG)	Mate connectors: Test per EIA-364-65, method 2A	10 milliohms MAXIMUM (change from initial) & Visual: No Damage

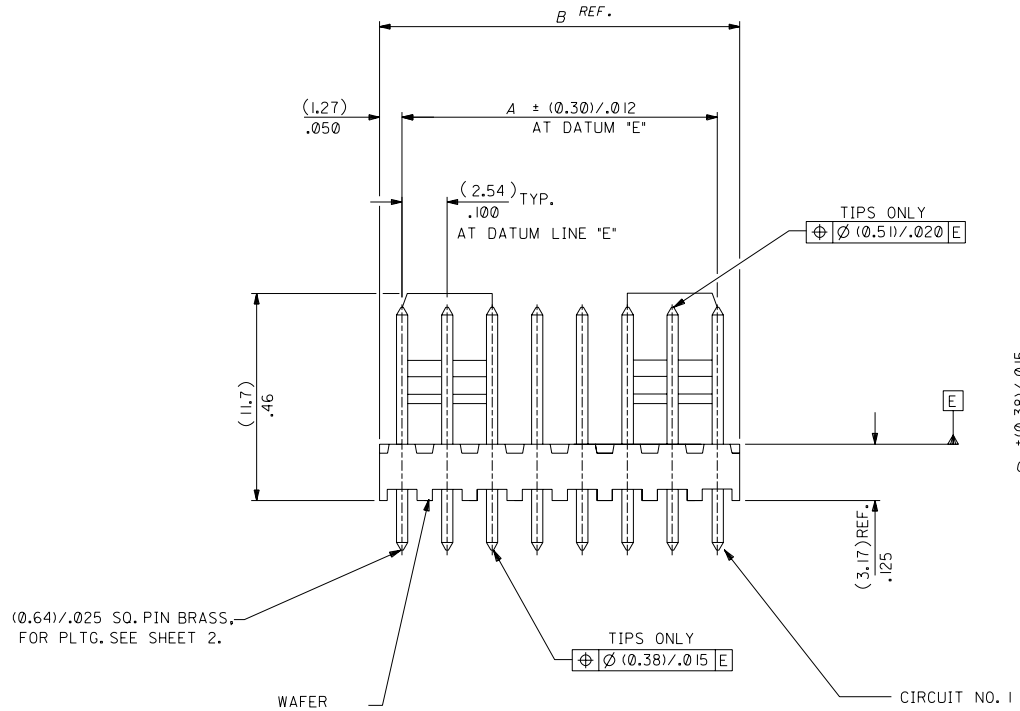
6.0 PACKAGING

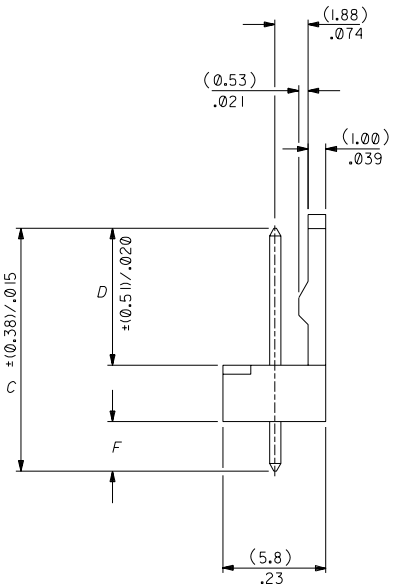
Parts shall be packaged to protect against damage during handling, transit and storage.

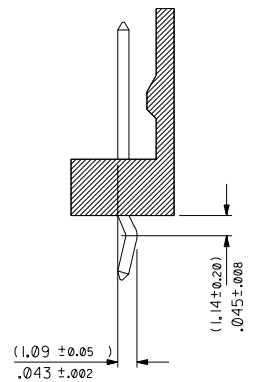
7.0 GAGES AND FIXTURES

8.0 OTHER

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



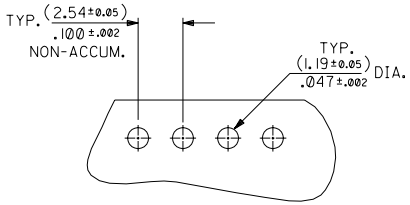




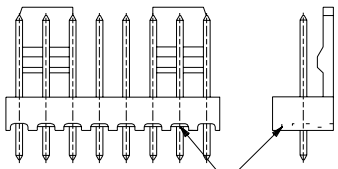
KINK OPTIONS:
SEE SHEET 4 FOR KINK PIN POSITIONS
(SECTION SHOWING STANDARD KINKED PIN ONLY)

AE-6410-N ✱(✱)
NO. OF CCTS.
WAFER ASSY. OPTION
PLATING TYPE

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. 10-07.
6. PIN SOLDERABILITY PER MOLEX SPEC. NO. 152.
7. FOR KINKED OPTIONS, KINKED ON 1st AND LAST CCT.



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



ALTERNATIVE WAFER CONFIGURATION

PART NO. SEE CHART
DWG NO. SDAE-6410-N

FOR PREVIOUS DRAWING ISSUES SEE MR1.

LTR	REVISIONS	BY
AN	ADDED OPTIONS ECN E80438 98.04.01 GW	

DIMENSIONS SHOWN (METRIC) INCH
UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ± ½

	INCH	(METRIC)
3 PLACE	± .010	
2 PLACE	± .014	± 0.25
1 PLACE		± 0.35

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DESIGN DIMENSION ☒ (MM) (PRIMARY) ☐ IN.
EQUIVALENT DIMENSION ☐ (MM) (SECONDARY) ☒ IN.

DRWG BY: MCC
CHK'D BY:
APP'D BY:
SCALE: 5:1

SH.	REV.
5	AL
4	AN
3	AM
2	Z
1	AN

REVISE ONLY ON CAD SYSTEM

CADCAM FILENAME: SA6410X1 DGN

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

MOLEX EUROPE
SHEET NO.: 1 OF 5
DATE: 26/6 /86
PART NO.: SEE CHART
DWG NO.: SDAE-6410-N
SIZE: C

7133-1283

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㎜
DIMN. "D"		幅 7.50 ±0.25㎜ .295 ±.010	幅 7.50 ±0.25㎜ .295 ±.010	幅 9.22 ㎜ .363 REF	幅 7.14 ±0.25㎜ .281 ±.010	幅 7.50 ±0.25㎜ .295 ±.010	幅 7.50 ±0.25㎜ .295 ±.010
DIMN. "C"		⌀14.22㎜ .560	⌀14.22㎜ .560	⌀5.88㎜ .625	⌀20.32㎜ .800	⌀14.22㎜ .560	⌀16.15㎜ .636
DIMN. "F"		幅 3.56㎜ .140 REF	幅 3.56㎜ .140 REF	幅3.48 ±0.25㎜ .137 ±.010	⌀10.00㎜ .394 REF	幅 3.56㎜ .140 REF	⌀5.48㎜ .216 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.
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
	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
	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-6410-45(501)	38-00-7666
	5	5 A(501)	2051	5 A(516)	2052	5 K(516)	0935	5 C(501)		5 A(509)	NOT TOOLED		NOT TOOLED
	6	6 A(501)	2061	6 A(516)	2062	6 K(516)	0936	6 C(501)		6 A(509)		6S(501)	38-00-7667
	7	7 A(501)	2071	7 A(516)	2072	7 K(516)	0937	7 C(501)		7 A(509)			NOT TOOLED
	8	8 A(501)	2081	8 A(516)	2082	8 K(516)	0938	8 C(501)		8 A(509)			
	9	9 A(501)	2091	9 A(516)	2092	9 K(516)	0939	9 C(501)		9 A(509)			
	10	10 A(501)	2101	10 A(516)	2102	10 K(516)	0940	10 C(501)		10 A(509)			
	11	11 A(501)	2111	11 A(516)	2112	11 K(516)	0941	11 C(501)		11 A(509)			
	12	12 A(501)	2121	12 A(516)	2122	12 K(516)	0942	12 C(501)		12 A(509)			
	13	13 A(501)	2131	13 A(516)	2132	13 K(516)	0943	13 C(501)		13 A(509)			
	14	14 A(501)	2141	14 A(516)	2142	14 K(516)	0944	14 C(501)		14 A(509)			
	15	15 A(501)	2151	15 A(516)	2152	15 K(516)	0945	15 C(501)		15 A(509)			
	16	16 A(501)	2161	16 A(516)	2162	16 K(516)	0946	16 C(501)		16 A(509)			
	17	17 A(501)	2171	17 A(516)	2172	17 K(516)	0947	17 C(501)		17 A(509)			
	18	18 A(501)	2181	18 A(516)	2182	18 K(516)	0948	18 C(501)		18 A(509)			
	19	19 A(501)	2191	19 A(516)	2192	19 K(516)	0949	19 C(501)		19 A(509)			
	20	20 A(501)	2201	20 A(516)	2202	20 K(516)	0950	20 C(501)		20 A(509)			
	21	21 A(501)	2211	21 A(516)	2212	21 K(516)	0951	21 C(501)		21 A(509)			
	22	22 A(501)	2221	22 A(516)	2222	22 K(516)	0952	22 C(501)		22 A(509)			
	23	23 A(501)	2231	23 A(516)	2232	23 K(516)	0953	23 C(501)		23 A(509)			
	24	24 A(501)	2241	24 A(516)	2242	24 K(516)	0954	24 C(501)		24 A(509)			
	25	25 A(501)	2251	25 A(516)	2252	25 K(516)	0955	25 C(501)		25 A(509)			
	26	26 A(501)	2261	26 A(516)	2262	26 K(516)	0956	26 C(501)		26 A(509)			
	27	27 A(501)	2271	27 A(516)	2272	27 K(516)	0957	27 C(501)		27 A(509)			
	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-NA ⌀503㎜	
幅 7.50 ±0.25㎜ .295 ±.010	
⌀14.22㎜ .560	
幅 3.56㎜ .140 REF	
GOLD MIN. (0.00076)/.000030 OVER (0.00127)/.000050 NICKEL MIN.	
AE-6410-2A(503)	38-00-7062
3 A(503)	7063
4 ⌀	7064
5 ⌀	7065
6 ⌀	7066
7 ⌀	7067
8 ⌀	38-00-7068
9 ⌀	NOT TOOLED
10 ⌀	NOT TOOLED
11 ⌀	NOT TOOLED
12 ⌀	38-00-7072
13 ⌀	NOT TOOLED
14 ⌀	38-00-7074
15 ⌀	NOT TOOLED
16 ⌀	
17 ⌀	
18 ⌀	
19 ⌀	NOT TOOLED
20 ⌀	38-00-7080
21 ⌀	NOT TOOLED
22 ⌀	NOT TOOLED
23 ⌀	NOT TOOLED
24 ⌀	38-00-0441
25 ⌀	NOT TOOLED
26 ⌀	
27 A(503)	
AE-6410-28A(503)	NOT TOOLED

FOR MANUF. IN THE US ONLY

PART NO. SEE CHART
DWG NO. SDAE-6410-N

FOR PREVIOUS DRAWING ISSUES SEE MR1.

LTR	REVISIONS	BY	DATE
AM	SEE SHEET 1.		

DIMENSIONS SHOWN (METRIC) INCH
UNLESS OTHERWISE SPECIFIED TOLERANCES: ANGULAR ±°

	INCH	(METRIC)
3 PLACE	± .010	
2 PLACE	± .014	± 0.25
1 PLACE		± 0.35

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS
DESIGN DIMENSION (PRIMARY) ☒ (MM) ☐ IN.
EQUIVALENT DIMENSION (SECONDARY) ☐ (MM) ☒ IN.

DRWG BY: MCC
CHK'D BY:
APP'D BY:
SCALE:

REVISE ONLY ON CAD SYSTEM | SH. | REV.

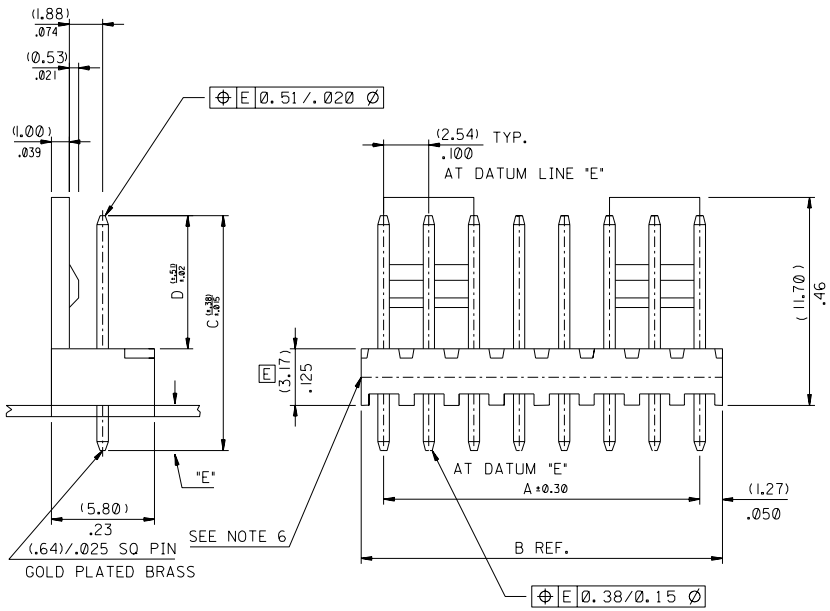
CADCAM FILENAME: SA6410X3 DGN

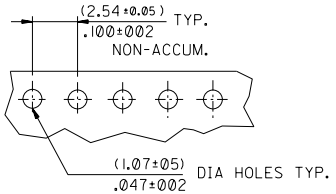
TITLE: WAFER, FRICTION LOCK, KK (2.54)/.100 FOR (0.64)/.025 SQ. PINS

MOLEX EUROPE | SHEET NO. 3OF | DATE 26/9 /86

PART NO. SEE CHART | DWG NO. SDAE-6410-N | SIZE C

7133-1283





RECOMMENDED P.C. BOARD HOLE DIMENSION

ENGINEERING NO.	AE-6410 NAG	AEX-6410-NCG	AEX-6410-NCG	AE-6410-NAG	AE-6410-NKG	AEX-6410-NAGS2	AEX-6410-NLG
DIMENSION "D"	(7.50) .295	(5.72) .293	(5.72) .225	(7.50) .225	(9.22) .363 REF.	(7.50) .295	(7.50) .295
DIMENSION "C" PIN NUMBER	2766-1G (14.22)/.560	2766-7G (14.22)/.560	2766-5G (11.10)/.560	2766-(5/6) (11.10)/.437	2766-(5/6) (15.88)/.625	2766-1G1 (14.22)/.560	2766-4IG (18.69)/.736

NO. OF CCT'S	DIM. "A"	DIM. "B"	PART NO.			PART NO.			
2	(2.54) .100	(5.08) .200	22-29-2021	NOT TOOLED	NOT TOOLED	22-29-2022	38-00-0932	NOT TOOLED	NOT TOOLED
3	(5.08) .200	(7.62) .300	22-29-2031	↑	↑	22-29-2032	38-00-0933	↑	↑
4	(7.62) .300	(10.16) .400	22-29-2041			22-29-2042	38-00-0934		
5	(10.16) .400	(12.70) .500	22-29-2051			22-29-2052	38-00-0935		
6	(12.70) .500	(15.24) .600	22-29-2061			22-29-2062	38-00-0936		
7	(15.24) .600	(17.78) .700	22-29-2071			22-29-2072	38-00-0937		
8	(17.78) .700	(20.32) .800	22-29-2081			22-29-2082	38-00-0938		
9	(20.32) .800	(22.86) .900	22-29-2091			22-29-2092	38-00-0939		
10	(22.86) .900	(25.40) 1.000	22-29-2101			22-29-2102	38-00-0940		
11	(25.40) 1.000	(27.94) 1.100	22-29-2111			22-29-2112	38-00-0941		
12	(27.94) 1.100	(30.49) 1.200	22-29-2121			22-29-2122	38-00-0942		
13	(30.49) 1.200	(33.02) 1.300	22-29-2131			22-29-2132	38-00-0943		
14	(33.02) 1.300	(35.56) 1.400	22-29-2141			22-29-2142	38-00-0944		
15	(35.56) 1.400	(38.10) 1.500	22-29-2151			22-29-2152	38-00-0945		
16	(38.10) 1.500	(40.64) 1.600	22-29-2161			22-29-2162	38-00-0946		
17	(40.64) 1.600	(43.18) 1.700	22-29-2171			22-29-2172	38-00-0947		
18	(43.18) 1.700	(45.72) 1.800	22-29-2181			22-29-2182	38-00-0948		
19	(45.72) 1.800	(48.26) 1.900	22-29-2191			22-29-2192	38-00-0949		
20	(48.26) 1.900	(50.80) 2.000	22-29-2201			22-29-2202	38-00-0950		
21	(50.80) 2.000	(53.34) 2.100	22-29-2211			22-29-2212	38-00-0951		
22	(53.34) 2.100	(55.88) 2.200	22-29-2221			22-29-2222	38-00-0952		
23	(55.88) 2.200	(58.42) 2.300	22-29-2231			22-29-2232	38-00-0953		
24	(58.42) 2.300	(60.86) 2.400	22-29-2241			22-29-2242	38-00-0954		
25	(60.86) 2.400	(63.50) 2.500	22-29-2251			22-29-2252	38-00-0955		
26	(63.50) 2.500	(66.04) 2.600	22-29-2261			22-29-2262	38-00-0956		
27	(66.04) 2.600	(68.58) 2.700	22-29-2271			22-29-2272	38-00-0957		
28	(68.58) 2.700	(71.12) 2.800	22-29-2281	NOT TOOLED	NOT TOOLED	22-29-2282	38-00-0958	NOT TOOLED	NOT TOOLED
DIMENSION "E"			(3.56) REF. .140	(3.10) REF. .122	(2.21) REF. .087	(3.56) REF. .140	3.48±0.25 .137±010	(3.56) REF. .140	(8.02) REF. .316
PLATING			GOLD PLATE (5UM)/(7.6UM) .2UI/.3UI OVER (7.6UM)/1.5UM) .3UI/.6UI NICKEL	GOLD PLATE (5UM)/(7.6) .2UI/.3UI OVER (7.6)/(1.5) .3UI/.6UI NICKEL	GOLD PLATE (5UM)/(7.6) .2UI/.3UI OVER (7.6)/(1.5) .3UI/.6UI NICKEL	GOLD PLATE (2.5UM)/(7.6UM) .1UI/.2UI OVER (7.6UM)/(1.5) .3UI/.6UI NICKEL	GOLD PLATE (2.5UM)/(7.6UM) .1UI/.2UI OVER (7.6UM)/(1.5) .3UI/.6UI NICKEL	GOLD PLATE (1.2UM)/(1.5UM) .1UI/.2UI OVER (2.5UM)/(3UM) 1UI/.13UI NICKEL	GOLD PLATE (5UM)/(7.6) .2UI/.3UI OVER (7.6)/(1.5) .3UI/.6UI NICKEL

PART NO. SEE CHART
DWG NO. SDAE-6410-N*G*

NOTES:
1. PIN SOLDERABILITY PER MOLEX SOLDERABILITY SPEC. NO. 152
2. PIN PUSH OUT FORCE (.907KG)/2 LBS MIN
3. WAFERS STACKABLE END TO END WITH (2.54)/.100 BETWEEN END PINS
4. CODE LETTER 'I' PRECEDING PART NO. DESIGNATES MANUFACTURING LOCATION IRELAND
5. THIS PART CONFORMS TO MOLEX PROD. SPEC. SPEC. NO. 10-07
6. BLACK COLOUR STRIPE RUNNING LENGHT OF WAFER IS OPTIONAL

WAFER MATERIAL: NYLON,94V.0

REDRAWN ON CAD EC NO. E20000-821 DRWN: O.COSTEL 98/02/09 CH'K: APPR: L

DESCRIPTION / REV

QUALITY SYMBOLS: MAJOR ▼ = CRITICAL (C) =

GENERAL TOLERANCES: (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	±0.010	±.
3 PLACES	±0.014	±.025
2 PLACES	±0.	±.035
1 PLACE	±0.	±.
ANGULAR: ± 1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

SCALE 5 : 1 | DESIGN UNITS ☒mm ☒INCH | THIRD ANGLE PROJECTION | DIMENSIONS: ☒ mm/INCH ☐ INCH/mm ☐ mm ONLY | SHT | REV | REVISE ON CAD ONLY

DRAWN BY & DATE O.COSTEL 98/02/09
CHECKED BY & DATE PWHITE 98/09/25
APPROVED BY & DATE MWILHITE 98/09/25

TITLE: WAFER FRACTION LOCK,KK (2.54)/.100 FOR (.64)/.025 SQ. PINS

molex MOLEX INCORPORATED

CAD FILENAME S6410X1.DGN | MATERIAL NO. SEE CHART | DRAWING NO. SDAE-6410 -N*G* | SHEET NO. 1 OF 1

SIZE C

7133-1283