Jameco Part Number 878817

FEATURES AND SPECIFICATIONS

2.54mm (.100") Pitch KK® Solid Header

7478

Right Angle Friction Lock

Features and Benefits

- Sizes 2 to 28 circuits
- Friction lock provides passive lock to connector with ramp
- 7478 with voids is 7832 Series
- Various pin lengths available
- End-to-end stackable
- Edge mount only

Reference Information

Product Specification: PS-10-07
Packaging: Bag
UL File No.: E29179
CSA File No.: LR19980
Mates With: 2695, 4455, 6471, 7720 and 7880
Designed In: Inches

Electrical

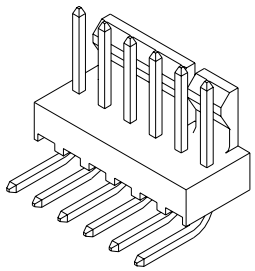
Voltage: 250V
Current: 4.0A
Contact Resistance: 20mΩ max.
Dielectric Withstanding Voltage: 1500V
Insulation Resistance: 50K MΩ min.

Mechanical

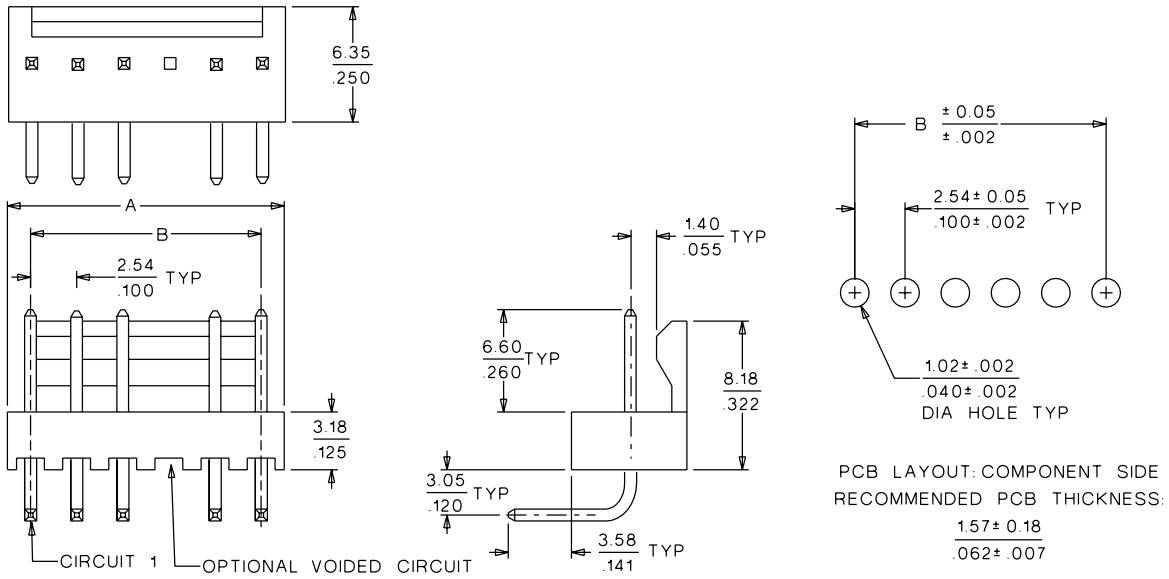
Durability:
Tin—25 cycles max.
Gold—100 cycles max.

Physical

Housing: White 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
2	• 22-05-3021	• 22-12-2024	5.08 (.200)	2.54 (.100)
3	• 22-05-3031	• 22-12-2034	7.62 (.300)	5.08 (.200)
4	• 22-05-3041	• 22-12-2044	10.16 (.400)	7.62 (.300)
5	• 22-05-3051	• 22-12-2054	12.70 (.500)	10.16 (.400)
6	• 22-05-3061	• 22-12-2064	15.24 (.600)	12.70 (.500)
7	• 22-05-3071	• 22-12-2074	17.78 (.700)	15.24 (.600)
8	• 22-05-3081	• 22-12-2084	20.32 (.800)	17.78 (.700)
9	• 22-05-3091	• 22-12-2094	22.86 (.900)	20.32 (.800)
10	• 22-05-3101	• 22-12-2104	25.40 (1.000)	22.86 (.900)
11	• 22-05-3111	• 22-12-2114	27.94 (1.100)	25.40 (1.000)
12	• 22-05-3121	• 22-12-2124	30.48 (1.200)	27.94 (1.100)
13	• 22-05-3131	• 22-12-2134	33.02 (1.300)	30.48 (1.200)
14	• 22-05-3141	• 22-12-2144	35.56 (1.400)	33.02 (1.300)
15	• 22-05-3151	• 22-12-2154	38.10 (1.500)	35.56 (1.400)

Circuits	Order No.		Dimension	
	Tin	Gold	A	B
16	• 22-05-3161	• 22-12-2164	40.64 (1.600)	38.10 (1.500)
17	• 22-05-3171	• 22-12-2174	43.18 (1.700)	40.64 (1.600)
18	• 22-05-3181	• 22-12-2184	45.72 (1.800)	43.18 (1.700)
19	• 22-05-3191	• 22-12-2194	48.26 (1.900)	45.72 (1.800)
20	• 22-05-3201	• 22-12-2204	50.80 (2.000)	48.26 (1.900)
21	• 22-05-3211	• 22-12-2214	53.34 (2.100)	50.80 (2.000)
22	• 22-05-3221	• 22-12-2224	55.88 (2.200)	53.34 (2.100)
23	• 22-05-3231	• 22-12-2234	58.42 (2.300)	55.88 (2.200)
24	• 22-05-3241	• 22-12-2244	60.96 (2.400)	58.42 (2.300)
25	• 22-05-3251	• 22-12-2254	63.50 (2.500)	60.96 (2.400)
26	22-05-3261	22-12-2264	66.04 (2.600)	63.50 (2.500)
27	22-05-3271	22-12-2274	68.58 (2.700)	66.04 (2.600)
28	22-05-3281	22-12-2284	71.12 (2.800)	68.58 (2.700)

• US Standard Product, available through Molex franchised distributors

Note: Circuit 1 designation is used to orient the header to locate the voided circuit. Review mating connector to assure correct mating orientation.

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

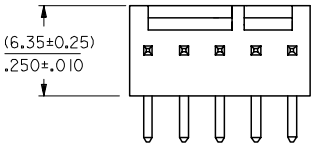
6.0 PACKAGING

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

7.0 GAGES AND FIXTURES

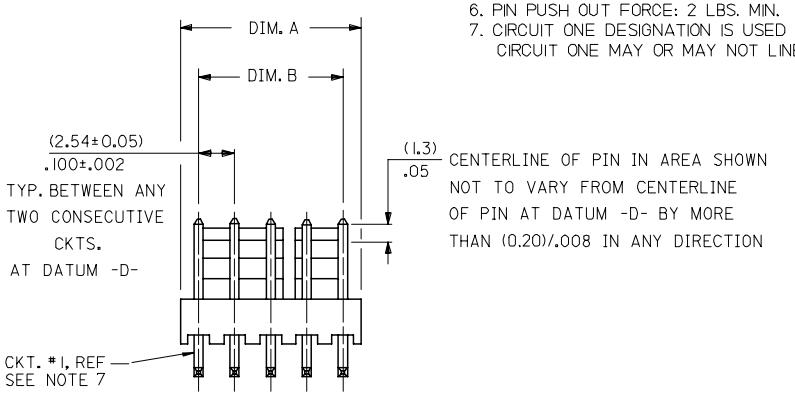
8.0 OTHER

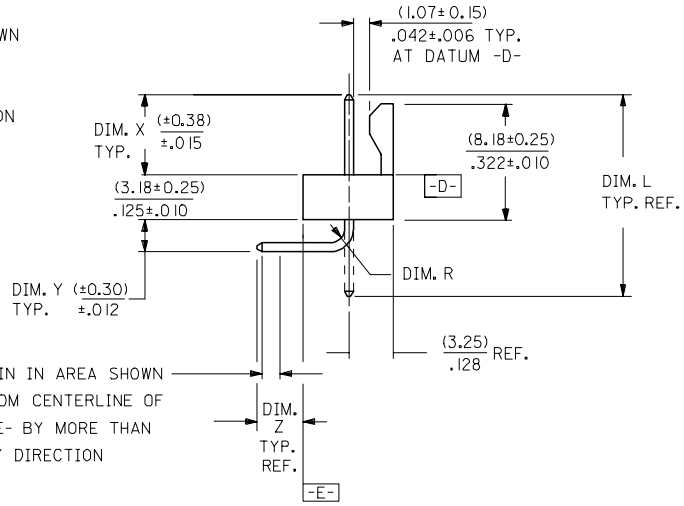
NO. OF CKTS.	DIM. A	DIM. B
28	(71.12 / 70.61) 2.800 / 2.780	(68.58 ± 0.25) 2.700 ± .010
27	(68.58 / 68.07) 2.700 / 2.680	(66.04 ± 0.25) 2.600 ± .010
26	(66.04 / 65.53) 2.600 / 2.580	(63.50 ± 0.25) 2.500 ± .010
25	(63.50 / 62.99) 2.500 / 2.480	(60.96 ± 0.25) 2.400 ± .010
24	(60.96 / 60.45) 2.400 / 2.380	(58.42 ± 0.25) 2.300 ± .010
23	(58.42 / 57.96) 2.300 / 2.282	(55.88 ± 0.23) 2.200 ± .009
22	(55.88 / 55.42) 2.200 / 2.182	(53.34 ± 0.23) 2.100 ± .009
21	(53.34 / 52.88) 2.100 / 2.082	(50.80 ± 0.23) 2.000 ± .009
20	(50.80 / 50.34) 2.000 / 1.982	(48.26 ± 0.23) 1.900 ± .009
19	(48.26 / 47.80) 1.900 / 1.882	(45.72 ± 0.23) 1.800 ± .009
18	(45.72 / 45.31) 1.800 / 1.784	(43.18 ± 0.20) 1.700 ± .008
17	(43.18 / 42.77) 1.700 / 1.684	(40.64 ± 0.20) 1.600 ± .008
16	(40.64 / 40.23) 1.600 / 1.584	(38.10 ± 0.20) 1.500 ± .008
15	(38.10 / 37.69) 1.500 / 1.484	(35.56 ± 0.20) 1.400 ± .008
14	(35.56 / 35.20) 1.400 / 1.386	(33.02 ± 0.18) 1.300 ± .007
13	(33.02 / 32.66) 1.300 / 1.286	(30.48 ± 0.18) 1.200 ± .007
12	(30.48 / 30.12) 1.200 / 1.186	(27.94 ± 0.18) 1.100 ± .007
11	(27.94 / 27.58) 1.100 / 1.086	(25.40 ± 0.18) 1.000 ± .007
10	(25.40 / 25.04) 1.000 / .986	(22.86 ± 0.15) .900 ± .006
9	(22.86 / 22.50) .900 / .886	(20.32 ± 0.15) .800 ± .006
8	(20.32 / 19.96) .800 / .786	(17.78 ± 0.15) .700 ± .006
7	(17.78 / 17.42) .700 / .686	(15.24 ± 0.13) .600 ± .005
6	(15.24 / 14.88) .600 / .586	(12.70 ± 0.13) .500 ± .005
5	(12.70 / 12.40) .500 / .488	(10.16 ± 0.13) .400 ± .005
4	(10.16 / 9.86) .400 / .388	(7.62 ± 0.13) .300 ± .005
3	(7.62 / 7.32) .300 / .288	(5.08 ± 0.10) .200 ± .004
2	(5.08 / 4.78) .200 / .188	(2.54 ± 0.05) .100 ± .002

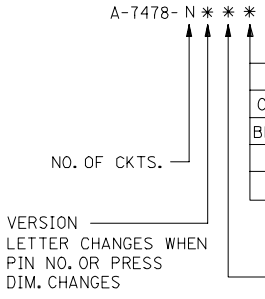


NOTES:

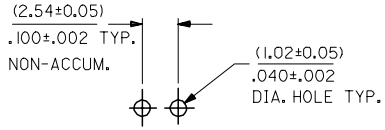
1. MATERIAL: NYLON, UL94V-0, COLOR: WHITE
2. FINISH:
   - (102) - OVERALL TIN: (0.00508)/.000200 MIN., OVERALL COPPER UNDERPLATE: (0.00254)/.000100 MIN.
   - (154) - OVERALL TIN: (0.00254)/.000100 MIN., OVERALL NICKEL UNDERPLATE: (0.00127)/.000050 MIN.
   - (501) - OVERALL GOLD: (0.00051)/.000020 MIN., OVERALL NICKEL UNDERPLATE: (0.00076)/.000030 MIN.
   - (503) - OVERALL GOLD: (0.00076)/.000030 MIN., OVERALL NICKEL UNDERPLATE: (0.00127)/.000050 MIN.
   - (531) - OVERALL GOLD: (0.00038)/.000015 MIN., OVERALL NICKEL UNDERPLATE: (0.00076)/.000030 MIN.
3. PARTS CONFORM TO PRODUCT SPECIFICATION PS-10-07.
4. PACKAGING INFORMATION: SEE LEGEND.
5. PARTS ARE STACKABLE END TO END ON (2.54)/.100 CENTERS.
6. PIN PUSH OUT FORCE: 2 LBS. MIN.
7. CIRCUIT ONE DESIGNATION IS USED TO DEFINE VOID LOCATION.
   CIRCUIT ONE MAY OR MAY NOT LINE UP WITH CIRCUIT ONE ON THE HOUSING.







SECONDARY OPERATIONS		
CODE	PACKAGE	KINKED PIN
BLANK	BULK PK-7478-001	NO
B	BULK PK-7478-001	ES-42003
T	TUBE PER PK-44743-001	NO



RECOMMENDED P.C. BOARD HOLE LAYOUT

SHT	REV
7	Y4
6	W1
5	Y8
4	Y7
3	Y9
2	Y9
1	Y9

ADD P/N'S
EC NO: UCP2006-1815 2006/02/06
DRWN:ADERR 2006/02/06
CH'KD:AELHAG 2006/02/09
APPR:FSMITH
DESCRIPTION
REV Y9

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± .010
2 PLACES	± 0.25	± .015
1 PLACE	± 0.38	± ---
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

DRAWN BY	GUZIC	DATE 1987/07/30
CHECKED BY	PATEL	DATE 1987/07/30
APPROVED BY	LENZ	DATE 1987/07/30

TITLE: FRICTION LOCK HEADER ASY .100 CL BENT SQ PINS 7478 SERIES DWG

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDA-7478
SHEET NO.: 1 OF 7

SIZE C

ENG. NO.	PIN NO.	DIM. L	DIM. X	DIM. Z	DIM. Y	DIM. W	DIM. R
A-7478-NA102	2766-4102	(18.69) .736	(6.60) .260	(3.58) .141	(3.05) .120	90°	(1.17) .046
A-7478-NA501	2766-4501	(18.69) .736	(6.60) .260	(3.58) .141	(3.05) .120	90°	(1.17) .046
A-7478-NA501T	2766-4501	(18.69) .736	(6.60) .260	(3.58) .141	(3.05) .120	90°	(1.17) .046
A-7478-NA102T	2766-4102	(18.69) .736	(6.60) .260	(3.58) .141	(3.05) .120	90°	(1.17) .046

ENG. NO.	PIN NO.	DIM. L	DIM. X	DIM. Z	DIM. Y	DIM. W	DIM. T

ADD A-7478-NA102T
EC NO: UCP2006-1815 2006/02/06
DRWN:ADERR 2006/02/06
CHKD:AELHAG 2006/02/09
APPR:FSMITH
DESCRIPTION
REV
Y9

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
ANGULAR ±---°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM
SCALE: ---
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

DRAWN BY	GUZIK	DATE 1987/07/10
CHECKED BY	PATEL	DATE 1987/07/10
APPROVED BY	LENZ	DATE 1987/07/10

TITLE: FRICTION LOCK HEADER ASY .100 CL BENT SQ PINS 7478 SERIES DWG

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDA-7478
SHEET NO.: 2 OF 7
SIZE: C

A-7478-NA102

PART NO.		ENG. NO.
22-05-3021	*	A-7478-2A102
22-05-3031	*	A-7478-3A102
22-05-3041	*	A-7478-4A102
22-05-3051	*	A-7478-5A102
22-05-3061	*	A-7478-6A102
22-05-3071	*	A-7478-7A102
22-05-3081	*	A-7478-8A102
22-05-3091	*	A-7478-9A102
22-05-3101	*	A-7478-10A102
22-05-3111	*	A-7478-11A102
22-05-3121	*	A-7478-12A102
22-05-3131	*	A-7478-13A102
22-05-3141	*	A-7478-14A102
22-05-3151	*	A-7478-15A102
22-05-3161	*	A-7478-16A102
22-05-3171	*	A-7478-17A102
22-05-3181	*	A-7478-18A102
22-05-3191	*	A-7478-19A102
22-05-3201	*	A-7478-20A102
22-05-3211	*	A-7478-21A102
22-05-3221	*	A-7478-22A102
22-05-3231	*	A-7478-23A102
22-05-3241	*	A-7478-24A102
22-05-3251	*	A-7478-25A102
22-05-3261	*	A-7478-26A102
22-05-3271	*	A-7478-27A102
22-05-3281	*	A-7478-28A102

A-7478-NA501

PART NO.		ENG. NO.
22-12-2024	*	A-7478-2A501
22-12-2034	*	A-7478-3A501
22-12-2044	*	A-7478-4A501
22-12-2054		A-7478-5A501
22-12-2064	*	A-7478-6A501
22-12-2074	*	A-7478-7A501
22-12-2084	*	A-7478-8A501
22-12-2094	*	A-7478-9A501
22-12-2104	*	A-7478-10A501
22-12-2114	*	A-7478-11A501
22-12-2124	*	A-7478-12A501
22-12-2134	*	A-7478-13A501
22-12-2144	*	A-7478-14A501
22-12-2154	*	A-7478-15A501
22-12-2164	*	A-7478-16A501
22-12-2174	*	A-7478-17A501
22-12-2184	*	A-7478-18A501
22-12-2194	*	A-7478-19A501
22-12-2204	*	A-7478-20A501
22-12-2214	*	A-7478-21A501
22-12-2224	*	A-7478-22A501
22-12-2234	*	A-7478-23A501
22-12-2244	*	A-7478-24A501
22-12-2254	*	A-7478-25A501
22-12-2264	*	A-7478-26A501
22-12-2274	*	A-7478-27A501
22-12-2284	*	A-7478-28A501

A-7478-NA501T

PART NO.	ENG. NO.
50-29-1710	A-7478-2A501T
50-29-1711	A-7478-3A501T
50-29-1705	A-7478-4A501T
50-29-1712	A-7478-5A501T
50-29-1713	A-7478-6A501T
50-29-1714	A-7478-7A501T
50-29-1715	A-7478-8A501T
50-29-1716	A-7478-9A501T
50-29-1717	A-7478-10A501T
50-29-1718	A-7478-11A501T
50-29-1719	A-7478-12A501T
50-29-1720	A-7478-13A501T
50-29-1721	A-7478-14A501T
50-29-1722	A-7478-15A501T
50-29-1723	A-7478-16A501T
50-29-1724	A-7478-17A501T
50-29-1725	A-7478-18A501T
50-29-1726	A-7478-19A501T
50-29-1727	A-7478-20A501T
50-29-1728	A-7478-21A501T
50-29-1729	A-7478-22A501T
50-29-1730	A-7478-23A501T
50-29-1731	A-7478-24A501T
50-29-1732	A-7478-25A501T
50-29-1733	A-7478-26A501T
50-29-1734	A-7478-27A501T
50-29-1735	A-7478-28A501T

A-7478-NA102T

PART NO.	ENG. NO.
50-34-8500	A-7478-2A102T
50-34-8501	A-7478-3A102T
50-34-8502	A-7478-4A102T

PART NO.	ENG. NO.

PART NO.	ENG. NO.

ADD P/N'S
EC NO: UCP2006-1815 2006/02/06
DRWN:ADERR 2006/02/06
CHKD:AELHAG 2006/02/09
APPR:FSMITH
DESCRIPTION
REV
Y9

QUALITY SYMBOLS
▼=0
▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
ANGULAR ±---°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: IN/MM
SCALE: ---
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

DRAWN BY: GUZIK DATE: 1987/07/10
CHECKED BY: PATEL DATE: 1987/07/10
APPROVED BY: LENZ DATE: 1987/07/10

TITLE: FRICTION LOCK HEADER ASY .100 CL BENT SQ PINS 7478 SERIES DWG.

molex MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SDA-7478
SHEET NO.: 3 OF 7

SIZE C