Jameco Part Number 797110

PRODUCT SPECIFICATION

1.0 SCOPE

This Product Specification covers the 3.96 mm (.156 inch) centerline (pitch) 1.14mm (.045) square pin headers when mated with either printed circuit board (PCB) connectors or connectors terminated with 18 to 26 AWG wire using crimp technology.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME AND SERIES NUMBERS

Crimp Terminals: 2478,2578,2878,2477,
Crimp Housings: 2139, 41695
PCB Connectors: 2145, 41815
Headers: 41771, 41772, 41791, 41792, 42471, 42472, 42491, 42492, 41661, 41662, 41671, 61672, 41681, 41682
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

(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.)

a. For Crimp Terminals- and Applicable Wires

Wire Awg	Amps (Max) With Brass	Amps (Max) With Phos Bronze	Wire Insulation Dia
18	5.00	7.00	See terminal drawings
20	4.75	6.25	See terminal drawings
22	4.50	5.50	See terminal drawings
24	4.25	5.00	See terminal drawings
26	4.00	4.50	See terminal drawings

4.2 CURRENT (cont)

b. For Printed Circuit Board Connectors

Connector Style	Amps (Max) With Brass	Amps (Max) With Phos Bronze
Top Entry	4.50	5.00
Right Angle	4.50	5.00
Bottom Entry	4.00	4.50

4.3 TEMPERATURE (ambient + 30^{0}C temp rise)

	Brass	Phos Bronze
Operating Temperature	0^{0}C to +50^{0}C	0^{0}C to +75^{0}C
Non Operating Temperature	-40^{0}C to +105^{0}C	-40^{0}C to +105^{0}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.	1.2 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 .045 Sq. pin. Mate and unmate connector (male to female) at a rate of 25 ± 6 mm (1 ± ¼ inch) per minute.	10.0 N (2.25 lbf) MAXIMUM insertion force & 3.7 N (0.84 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.)	17.8 N (4.0 lbf) MAXIMUM insertion 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.)	35.6 N (8.0 lbf) MINIMUM withdrawal 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)	18 awg = 89 N (20 lbf) 20 awg = 66 N (15 lbf) 22 awg = 53 N (12 lbf) 24 awg = 35 N (8 lbf) 26 awg = 22 N (5 lbf)
Normal Force	Apply a perpendicular force.	7.34 N (748 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

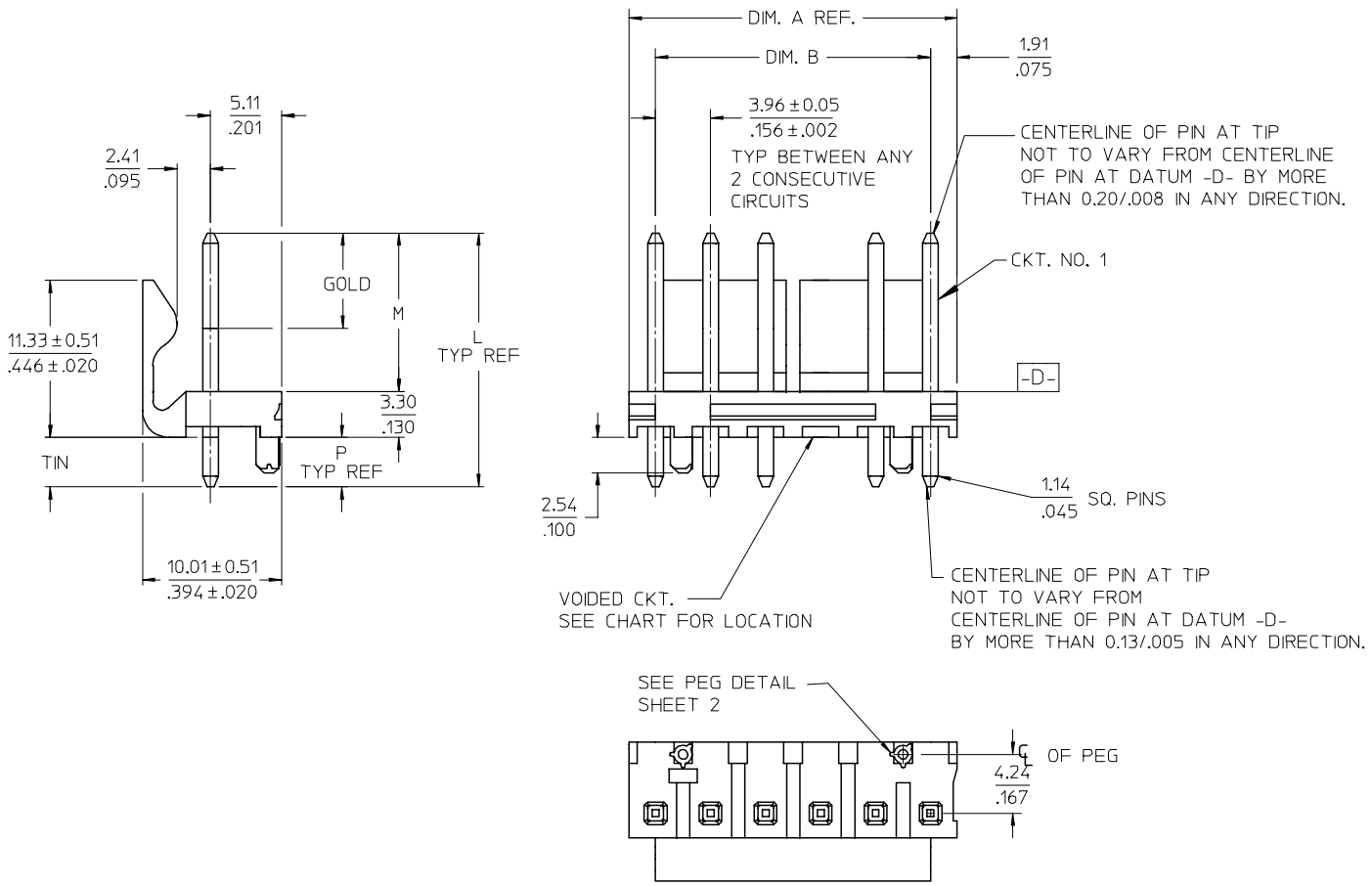
DESCRIPTION	TEST CONDITION	REQUIREMENT
Solder Resistance	Dip connector terminal tails in solder: Solder Duration: 5 ± 0.5 seconds; Solder Temperature: 230 ± 5°C	Visual: No Damage to insulator material
Salt Spray	Mate connectors: Duration: 48 hours exposure; Atmosphere: salt spray from a 5% solution; 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



CKTS.	DIM. A	DIM. B
2	7.77 .306	3.96±0.05 .156±.002
3	11.73 .462	7.92±0.08 .312±.003
4	15.70 .618	11.89±0.08 .468±.003
5	19.66 .774	15.85±0.10 .624±.004
6	23.62 .930	19.81±0.10 .780±.004
7	27.58 1.086	23.77±0.10 .936±.004
8	31.55 1.242	27.74±0.13 1.092±.005
9	35.51 1.398	31.70±0.13 1.248±.005
10	39.47 1.554	35.66±0.13 1.404±.005
11	43.43 1.710	39.62±0.15 1.560±.006
12	47.40 1.866	43.59±0.15 1.716±.006
13	51.36 2.022	47.55±0.15 1.872±.006
14	55.32 2.178	51.51±0.18 2.028±.007
15	59.28 2.334	55.47±0.18 2.184±.007
16	63.25 2.490	59.44±0.18 2.340±.007
17	67.21 2.646	63.40±0.20 2.496±.008
18	71.17 2.802	67.36±0.20 2.652±.008

GEN. DOCS.	3-*	F1
ANNOTATOR	1-2	F1
SOFTWARE	SHT.	REV.

tb_frame_A_P_AM_T
Rev. D 2004/06/28

REVISE PER ECN
EC NO: UCP2006-1218 2006/01/25
DRWN:DPETERSON 2006/01/31
CH'KD:ADERR 2006/02/02
APPR:FSMITH
DESCRIPTION

F1
REV

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: 2:1
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

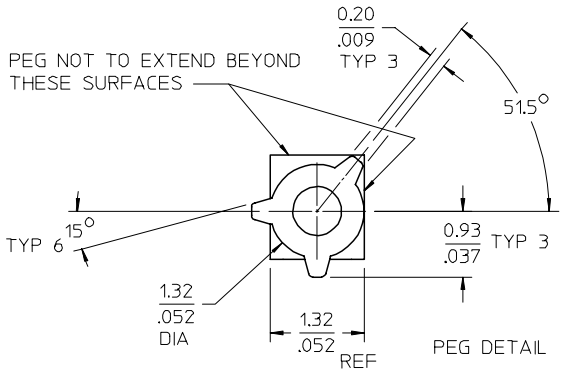
DRAWN BY	SCHAFER
DATE	11-14-03
CHECKED BY	SAMIEC
DATE	11-14-03
APPROVED BY	MARGULIS
DATE	11-14-03

TITLE: KK 156 HEADER ASSEMBLY
FRICTION LOCK
VERTICAL PEGS

molex MOLEX INCORPORATED

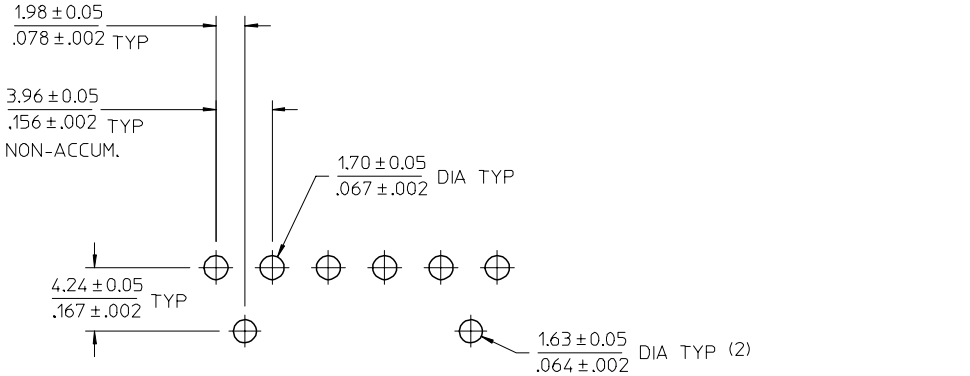
MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-42491-001
SHEET NO.: 1 OF 2

SIZE A



NOTES:

1. MATERIAL: HEADER-POLYESTER, 94V-0, MOLDED NATURAL (WHITE)
   PINS: BRASS
2. FINISHES: (102) TIN 0.00508/.000200 MIN. OVER 0.00254/.000100 MIN. COPPER.
   (208) SELECT GOLD 0.00038/.000015 MIN. SELECT TIN 0.00254/.000100 MIN. OVER NICKEL
   (228) SELECT GOLD 0.00076/.000030 MIN. SELECT TIN 0.00254/.000100 MIN. OVER NICKEL
3. PRODUCT SPECIFICATION: SEE PS-08-50.
4. PACKAGING INFORMATION: SEE CHARTS.
5. SOLDERABILITY: WHEN PARTS ARE SOLDERED AT A TEMPERATURE OF 230°C (446°F) FOR 5 SECONDS, EACH SOLDERED SURFACE SHALL BE A MINIMUM OF 95% COVERED.
6. PIN PUSH OUT FORCE: PRIOR TO SOLDERING = 3 LB MINIMUM FORCE (IN EITHER DIRECTION) SHALL BE REQUIRED TO PUSH THE PIN OUT OF THE HEADER.
7. PARTS ARE STACKABLE END TO END ON (3.96)/.156 CENTERS.
8. FOR PART WITHOUT PEGS SEE DWG. NO. SDA-41791.



PCB LAYOUT: COMPONENT SIDE

UPDATE PER ECN
EC NO: UCP2006-1218 2006/01/25
DRWN:DPETERSON 2006/01/31
CH'KD:ADERR 2006/02/02
APPR:FSMITH
DESCRIPTION
F1
REV

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: 1:1
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

DRAWN BY: SCHAFER DATE: 11-14-03
CHECKED BY: SAMIEC DATE: 11-14-03
APPROVED BY: MARGULIS DATE: 11-14-03

TITLE: KK 156 HEADER ASSEMBLY FRICTION LOCK VERTICAL PEGS

MOLEX INCORPORATED

MATERIAL NO.: SEE CHART
DOCUMENT NO.: SD-42491-001
SHEET NO.: 2 OF 2

SIZE: A

OPTIONS								
	Group	A-42491-0002/0018	Group	A-42491-0312/0328	Group	A-42491-0329/0345	Group	
	Header No:	41790-0019/0035	Header No:	41790-0019/0035	Header No:	41790-0019/0035	Header No:	
	Pin No:	2161-94(102)	Pin No:	43294-0209	Pin No:	43294-0210	Pin No:	
	Plating:	102 – TIN	Plating:	208 – 15 GOLD	Plating:	228 – 30 GOLD	Plating:	
	Pin Length L	18.29 / .720	Pin Length L	18.29/. 720	Pin Length L	18.29/. 720	Pin Length L	
	Mating M	11.43 / .450	Mating M	11.43/. 450	Mating M	11.43/. 450	Mating M	
	Gold Loc G	N/A	Gold Loc G	6.86/. 270	Gold Loc G	6.86/. 270	Gold Loc G	
	PC Tail P	3.56 / .140	PC Tail P	3.56/. 140	PC Tail P	3.56/. 140	PC Tail P	
	Tin Loc T	OVERALL	Tin Loc T	4.06/. 160	Tin Loc T	4.06/. 160	Tin Loc T	
	Voided Ckts	NONE	Voided Ckts	NONE	Voided CKts	NONE	Voided Ckts	
	Pack Per	PK-42491-001	Pack Per	PK-42491-001	Pack Per	PK-42491-001	Pack Per	

Ckts	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number
2	26-64-4020	A-42491-0002	42491-0312	A-42491-0312	42491-0329	A-42491-0329		
3	26-64-4030	A-42491-0003	42491-0313	A-42491-0313	42491-0330	A-42491-0330		
4	26-64-4040	A-42491-0004	42491-0314	A-42491-0314	42491-0331	A-42491-0331		
5	26-64-4050	A-42491-0005	42491-0315	A-42491-0315	42491-0332	A-42491-0332		
6	26-64-4060	A-42491-0006	42491-0316	A-42491-0316	42491-0333	A-42491-0333		
7	26-64-4070	A-42491-0007	42491-0317	A-42491-0317	42491-0334	A-42491-0334		
8	26-64-4080	A-42491-0008	42491-0318	A-42491-0318	42491-0335	A-42491-0335		
9	26-64-4090	A-42491-0009	42491-0319	A-42491-0319	42491-0336	A-42491-0336		
10	26-64-4100	A-42491-0010	42491-0320	A-42491-0320	42491-0337	A-42491-0337		
11	26-64-4110	A-42491-0011	42491-0321	A-42491-0321	42491-0338	A-42491-0338		
12	26-64-4120	A-42491-0012	42491-0322	A-42491-0322	42491-0339	A-42491-0339		
13	**X**26-64-4130	A-42491-0013	**X**42491-0323	A-42491-0323	**X**42491-0340	A-42491-0340		
14	**X**26-64-4140	A-42491-0014	**X**42491-0324	A-42491-0324	**X**42491-0341	A-42491-0341		
15	**X**26-64-4150	A-42491-0015	**X**42491-0325	A-42491-0325	**X**42491-0342	A-42491-0342		
16	**X**26-64-4160	A-42491-0016	**X**42491-0326	A-42491-0326	**X**42491-0343	A-42491-0343		
17	**X**26-64-4170	A-42491-0017	**X**42491-0327	A-42491-0327	**X**42491-0344	A-42491-0344		
18	**X**26-64-4180	A-42491-0018	**X**42491-0328	A-42491-0328	**X**42491-0345	A-42491-0345		

REV:		TITLE:	SHEET No.
F1	**X-OBSOLETE** **2/2/2006**	**KK 156 HEADER ASSEMBLY** **FRICTION LOCK** **VERTICAL PEGS**	**- 3 -**

DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
SD- 42491-001	**DPETERSON**	**ADERR**	**FSMITH**

OPTIONS								
	Group	A-42491-0019/0035	Group	A-42491-0036/0052	Group	A-42491-0059/0074	Group	A-42491-0086-0100
	Header No:	41790-0019/0035	Header No:	41790-0019/0035	Header No:	41790-0020/0035	Header No:	41790-0021/0035
	Pin No:	2161-94(501)	Pin No:	2161-94(102)	Pin No:	2161-94(102)	Pin No:	2161-94(102)
	Plating:	501 - GOLD	Plating:	102 - TIN	Plating:	102 - TIN	Plating:	102 - TIN
	Pin Length L	18.29 / .720	Pin Length L	18.29/. 720	Pin Length L	18.29/. 720	Pin Length L	18.29/. 720
	Mating M	11.43 / .450	Mating M	11.43/. 450	Mating M	11.43/. 450	Mating M	11.43/. 450
	Gold Loc G	OVERALL	Gold Loc G	N/A	Gold Loc G	N/A	Gold Loc G	N/A
	PC Tail P	3.56 / .140	PC Tail P	3.56/. 140	PC Tail P	3.56/. 140	PC Tail P	3.56/. 140
	Tin Loc T	N/A	Tin Loc T	OVERALL	Tin Loc T	OVERALL	Tin Loc T	OVERALL
	Voided Ckts	NONE	Voided Ckts	2	Voided CKts	3	Voided Ckts	2, 4
	Pack Per	PK-42491-001	Pack Per	PK-42491-001	Pack Per	PK-42491-001	Pack Per	PK-42491-001

Ckts	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number
2	26-65-4020	A-42491-0019						
3	26-65-4030	A-42491-0020	26-62-4035	A-42491-0037	27-62-4032	A-42491-0059		
4	26-65-4040	A-42491-0021	26-62-4045	A-42491-0038	27-62-4042	A-42491-0060		A-42491-0086
5	26-65-4050	A-42491-0022	26-62-4055	A-42491-0039	27-62-4052	A-42491-0061		A-42491-0087
6	26-65-4060	A-42491-0023	26-62-4065	A-42491-0040	27-62-4062	A-42491-0062	27-60-4061	A-42491-0088
7	26-65-4070	A-42491-0024	26-62-4075	A-42491-0041	27-62-4072	A-42491-0063		A-42491-0089
8	26-65-4080	A-42491-0025	26-62-4085	A-42491-0042	27-62-4082	A-42491-0064		A-42491-0090
9	26-65-4090	A-42491-0026	26-62-4095	A-42491-0043	27-62-4092	A-42491-0065		A-42491-0091
10	26-65-4100	A-42491-0027	26-62-4105	A-42491-0044	27-62-4102	A-42491-0066		A-42491-0092
11	26-65-4110	A-42491-0028	26-62-4115	A-42491-0045	27-62-4112	A-42491-0067		A-42491-0093
12	26-65-4120	A-42491-0029	26-62-4125	A-42491-0046	27-62-4122	A-42491-0068		A-42491-0094
13	**X**26-65-4130	A-42491-0030	**X**26-62-4135	A-42491-0047	**X**27-62-4132	A-42491-0069	**X**	A-42491-0095
14	**X**26-65-4140	A-42491-0031	**X**26-62-4145	A-42491-0048	**X**27-62-4142	A-42491-0070	**X**	A-42491-0096
15	**X**26-65-4150	A-42491-0032	**X**26-62-4155	A-42491-0049	**X**27-62-4152	A-42491-0071	**X**	A-42491-0097
16	**X**26-65-4160	A-42491-0033	**X**26-62-4165	A-42491-0050	**X**27-62-4162	A-42491-0072	**X**	A-42491-0098
17	**X**26-65-4170	A-42491-0034	**X**26-62-4175	A-42491-0051	**X**27-62-4172	A-42491-0073	**X**	A-42491-0099
18	**X**26-65-4180	A-42491-0035	**X**26-62-4185	A-42491-0052	**X**27-62-4182	A-42491-0074	**X**	A-42491-0100

REV:		TITLE:	SHEET No.
F1	**X-OBSOLETE** **2/2/2006**	**KK 156 HEADER ASSEMBLY** **FRICTION LOCK** **VERTICAL PEGS**	**- 4 -**

DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
SD- 42491-001	**DPETERSON**	**ADERR**	**FSMITH**

OPTIONS								
	Group	A-42491-0172/0188	Group	A-42491-0223/0239	Group	A-42491-0240/0251	Group	A-42491-0252/0265
	Header No:	41790-0019/0035	Header No:	41790-0019/0035	Header No:	41790-0023/0035	Header No:	41790-0022/0035
	Pin No:	2161-36(102)	Pin No:	2161-1(122)	Pin No:	2161-94(102)	Pin No:	2161-94(102)
	Plating:	102 - TIN	Plating:	122 - TIN	Plating:	102 - TIN	Plating:	102 - TIN
	Pin Length L	30.48/ 1.200	Pin Length L	19.05/. 750	Pin Length L	18.29/. 720	Pin Length L	18.29/. 720
	Mating M	13.28/ .523	Mating M	11.43/. 450	Mating M	11.43/. 450	Mating M	11.43/. 450
	Gold Loc G	N/A	Gold Loc G	N/A	Gold Loc G	N/A	Gold Loc G	N/A
	PC Tail P	13.89/ .547	PC Tail P	4.32/. 170	PC Tail P	3.56/. 140	PC Tail P	3.56/. 140
	Tin Loc T	OVERALL	Tin Loc T	OVERALL	Tin Loc T	OVERALL	Tin Loc T	OVERALL
	Voided Ckts	NONE	Voided Ckts	NONE	Voided CKts	7	Voided Ckts	5
	Pack Per	PK-42491-003	Pack Per	PK-42491-001	Pack Per	PK-42491-001	Pack Per	PK-42491-001

Ckts	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number
2		A-42491-0172	42491-0223	A-42491-0223				
3		A-42491-0173	42491-0224	A-42491-0224				
4		A-42491-0174	42491-0225	A-42491-0225				
5		A-42491-0175	42491-0226	A-42491-0226			42491-0252	A-42491-0252
6	26-64-4061	A-42491-0176	42491-0227	A-42491-0227			27-62-4068	A-42491-0253
7		A-42491-0177	42491-0228	A-42491-0228	42491-0240	A-42491-0240	42491-0254	A-42491-0254
8		A-42491-0178	42491-0229	A-42491-0229	27-62-4087	A-42491-0241	42491-0255	A-42491-0255
9		A-42491-0179	42491-0230	A-42491-0230	42491-0242	A-42491-0242	42491-0256	A-42491-0256
10		A-42491-0180	42491-0231	A-42491-0231	42491-0243	A-42491-0243	42491-0257	A-42491-0257
11		A-42491-0181	42491-0232	A-42491-0232	42491-0244	A-42491-0244	42491-0258	A-42491-0258
12		A-42491-0182	42491-0233	A-42491-0233	42491-0245	A-42491-0245	42491-0259	A-42491-0259
13	**X**	A-42491-0183	**X**42491-0234	A-42491-0234	**X**42491-0246	A-42491-0246	**X**42491-0260	A-42491-0260
14	**X**	A-42491-0184	**X**42491-0235	A-42491-0235	**X**42491-0247	A-42491-0247	**X**42491-0261	A-42491-0261
15	**X**	A-42491-0185	**X**42491-0236	A-42491-0236	**X**42491-0248	A-42491-0248	**X**42491-0262	A-42491-0262
16	**X**	A-42491-0186	**X**42491-0237	A-42491-0237	**X**42491-0249	A-42491-0249	**X**42491-0263	A-42491-0263
17	**X**	A-42491-0187	**X**42491-0238	A-42491-0238	**X**42491-0250	A-42491-0250	**X**42491-0264	A-42491-0264
18	**X**	A-42491-0188	**X**42491-0239	A-42491-0239	**X**42491-0251	A-42491-0251	**X**42491-0265	A-42491-0265

REV:		TITLE:	SHEET No.
F1	**X-OBSOLETE** **2/2/2006**	**KK 156 HEADER ASSEMBLY** **FRICTION LOCK** **VERTICAL PEGS**	**- 5 -**

DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
SD- 42491-001	**DPETERSON**	**ADERR**	**FSMITH**

OPTIONS								
	Group	A-42491-0266/0275	Group	A-42491-0276/0286	Group	A-42491-0287/0299	Group	A-42491-0300/0311
	Header No:	41790-0026/0035	Header No:	41790-0025/0035	Header No:	41790-0024/0035	Header No:	41790-0025/0035
	Pin No:	2161-94(102)	Pin No:	2161-94(102)	Pin No:	2161-94(102)	Pin No:	2161-94(102)
	Plating:	102 - TIN	Plating:	102 - TIN	Plating:	102 - TIN	Plating:	102 - TIN
	Pin Length L	18.29/ .720	Pin Length L	18.29/. 720	Pin Length L	18.29/. 720	Pin Length L	18.29/. 720
	Mating M	11.43 / .450	Mating M	11.43/. 450	Mating M	11.43/. 450	Mating M	11.43/. 450
	Gold Loc G	N/A	Gold Loc G	N/A	Gold Loc G	N/A	Gold Loc G	N/A
	PC Tail P	13.89/ .547	PC Tail P	3.56/. 140	PC Tail P	3.56/. 140	PC Tail P	3.56/. 140
	Tin Loc T	OVERALL	Tin Loc T	OVERALL	Tin Loc T	OVERALL	Tin Loc T	OVERALL
	Voided Ckts	3, 5, 6, 8, 9	Voided Ckts	2, 3, 5, 6, 8	Voided CKts	3, 6	Voided Ckts	2, 5, 7
	Pack Per	PK-42491-001	Pack Per	PK-42491-001	Pack Per	PK-42491-001	Pack Per	

Ckts	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number
2								
3								
4								
5								
6					42491-0287	A-42491-0287		
7					42491-0288	A-42491-0288	42491-0300	A-42491-0300
8			42491-0276	A-42491-0276	42491-0289	A-42491-0289	42491-0301	A-42491-0301
9	42491-0266	A-42491-0266	42491-0277	A-42491-0277	42491-0290	A-42491-0290	42491-0302	A-42491-0302
10	27-66-4104	A-42491-0267	27-66-4105	A-42491-0278	42491-0291	A-42491-0291	42491-0303	A-42491-0303
11	42491-0268	A-42491-0268	42491-0279	A-42491-0279	42491-0292	A-42491-0292	42491-0304	A-42491-0304
12	42491-0269	A-42491-0269	42491-0280	A-42491-0280	42491-0293	A-42491-0293	42491-0305	A-42491-0305
13	**X**42491-0270	A-42491-0270	**X**42491-0281	A-42491-0281	**X**42491-0294	A-42491-0294	**X**42491-0306	A-42491-0306
14	**X**42491-0271	A-42491-0271	**X**42491-0282	A-42491-0282	**X**42491-0295	A-42491-0295	**X**42491-0307	A-42491-0307
15	**X**42491-0272	A-42491-0272	**X**42491-0283	A-42491-0283	**X**42491-0296	A-42491-0296	**X**42491-0308	A-42491-0308
16	**X**42491-0273	A-42491-0273	**X**42491-0284	A-42491-0284	**X**42491-0297	A-42491-0297	**X**42491-0309	A-42491-0309
17	**X**42491-0274	A-42491-0274	**X**42491-0285	A-42491-0285	**X**42491-0298	A-42491-0298	**X**42491-0310	A-42491-0310
18	**X**42491-0275	A-42491-0275	**X**42491-0286	A-42491-0286	**X**42491-0299	A-42491-0299	**X**42491-0311	A-42491-0311

REV:		TITLE:	SHEET No.
F1	**X-OBSOLETE** **2/2/2006**	**KK 156 HEADER ASSEMBLY** **FRICTION LOCK** **VERTICAL PEGS**	**- 6 -**

DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
SD- 42491-001	**DPETERSON**	**ADERR**	**FSMITH**

OPTIONS								
	Group	A-42491-0346/0352	Group	A-42491-0353/0357	Group	A-42491-0358/0372	Group	A-42491-0373/0387
	Header No:	41790-0029/0035	Header No:	41790-0031/0035	Header No:	41790-0021/0035	Header No:	41790-0021/0035
	Pin No:	2161-94(102)	Pin No:	2161-94(102)	Pin No:	2161-94(102)	Pin No:	2161-94(102)
	Plating:	102 - TIN	Plating:	102 - TIN	Plating:	102 - TIN	Plating:	102 – TIN
	Pin Length L	18.29/ .720	Pin Length L	18.29/. 720	Pin Length L	18.29/. 720	Pin Length L	18.29/.720
	Mating M	11.43 / .450	Mating M	11.43/. 450	Mating M	11.43/. 450	Mating M	11.43/.450
	Gold Loc G	N/A	Gold Loc G	N/A	Gold Loc G	N/A	Gold Loc G	N/A
	PC Tail P	3.56/. 140	PC Tail P	3.56/. 140	PC Tail P	3.56/. 140	PC Tail P	3.56/.140
	Tin Loc T	OVERALL	Tin Loc T	OVERALL	Tin Loc T	OVERALL	Tin Loc T	OVERALL
	Voided Ckts	2, 4, 6, 8, 10, 12	Voided Ckts	2, 4, 6, 8, 10, 14	Voided CKts	4	Voided Ckts	3, 4
	Pack Per	PK-42491-001	Pack Per	PK-42491-001	Pack Per	PK-42491-001	Pack Per	PK-42491-001

Ckts	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number	Material No	Engineer Number
2								
3								
4						A-42491-0358		A-42491-0373
5					50-29-1600	A-42491-0359		A-42491-0374
6						A-42491-0360	42491-0375	A-42491-0375
7						A-42491-0361		A-42491-0376
8						A-42491-0362		A-42491-0377
9						A-42491-0363		A-42491-0378
10						A-42491-0364		A-42491-0379
11						A-42491-0365		A-42491-0380
12	42491-0346	A-42491-0346				A-42491-0366		A-42491-0381
13	**X**42491-0347	A-42491-0347			**X**	A-42491-0367		A-42491-0382
14	**X**42491-0348	A-42491-0348	**X**42491-0353	A-42491-0353	**X**	A-42491-0368		A-42491-0383
15	**X**42491-0349	A-42491-0349	**X**42491-0354	A-42491-0354	**X**	A-42491-0369		A-42491-0384
16	**X**42491-0350	A-42491-0350	**X**42491-0355	A-42491-0355	**X**	A-42491-0370		A-42491-0385
17	**X**42491-0351	A-42491-0351	**X**42491-0356	A-42491-0356	**X**	A-42491-0371		A-42491-0386
18	**X**42491-0352	A-42491-0352	**X**42491-0357	A-42491-0357	**X**	A-42491-0372		A-42491-0387

REV:		TITLE:	SHEET No.
F1	**X-OBSOLETE** **2/2/2006**	**KK 156 HEADER ASSEMBLY** **FRICTION LOCK** **VERTICAL PEGS**	**- 7 -**

DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
SD- 42491-001	**DPETERSON**	**ADERR**	**FSMITH**