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| CKT | B              | A                          |
|-----|----------------|----------------------------|
| 2   | 3.96<br>.156   | 6.78/7.87<br>.267/.310     |
| 3   | 7.92<br>.312   | 10.74/11.84<br>.423/.466   |
| 4   | 11.89<br>.468  | 14.71/15.80<br>.579/.622   |
| 5   | 15.85<br>.624  | 18.67/19.76<br>.735/.778   |
| 6   | 19.81<br>.780  | 22.63/23.72<br>.891/.934   |
| 7   | 23.77<br>.936  | 26.59/27.69<br>1.047/1.090 |
| 8   | 27.74<br>1.092 | 30.56/31.65<br>1.203/1.246 |
| 9   | 31.70<br>1.248 | 34.52/35.61<br>1.359/1.402 |
| 10  | 35.66<br>1.404 | 38.48/39.57<br>1.515/1.558 |
| 11  | 39.62<br>1.560 | 42.44/43.54<br>1.671/1.714 |
| 12  | 43.59<br>1.716 | 46.41/47.50<br>1.827/1.870 |
| 13  | 47.55<br>1.872 | 50.37/51.46<br>1.983/2.026 |
| 14  | 51.51<br>2.028 | 54.33/55.42<br>2.139/2.182 |
| 15  | 55.47<br>2.184 | 58.29/59.39<br>2.295/2.338 |
| 16  | 59.44<br>2.340 | 62.26/63.35<br>2.451/2.494 |
| 17  | 63.40<br>2.496 | 66.22/67.31<br>2.607/2.650 |
| 18  | 67.36<br>2.652 | 70.18/71.27<br>2.763/2.806 |
| 19  | 71.32<br>2.808 | 74.14/75.23<br>2.919/2.962 |
| 20  | 75.29<br>2.964 | 78.11/79.20<br>3.075/3.118 |
| 21  | 79.25<br>3.120 | 82.07/83.16<br>3.231/3.274 |
| 22  | 83.21<br>3.276 | 86.03/87.12<br>3.387/3.430 |
| 23  | 87.17<br>3.432 | 89.94/91.08<br>3.541/3.586 |
| 24  | 91.14<br>3.588 | 93.85/95.00<br>3.695/3.740 |

## NOTES:

1. MATERIAL: POLYESTER, 94V-0, MOLDED BLACK
2. FINISH: PER ES-88

(102) OVERALL TIN: 0.00508/.000200 MIN.

OVERALL COPPER: 0.00254/.000100 MIN.

(222) OVERALL MATTE TIN: 0.00254/.000100 MIN

OVERALL NICKEL: 0.00127/.000050 MIN.

(208) SELECT GOLD: 0.00038/.000015 MIN.

\*SELECT TIN: 0.00254/.000100 MIN.,

OVERALL NICKEL UNDERPLATE: 0.00127/.000050 MIN.

(228) SELECT GOLD: 0.00076/.000030 MIN.,

\*SELECT TIN: 0.00254/.000100 MIN.,

OVERALL NICKEL UNDERPLATE: 0.00127/.000050 MIN.

(501) OVERALL GOLD: 0.00051/.000020 MIN.

OVERALL NICKEL: 0.00076/.000030 MIN.

(503) OVERALL GOLD: 0.00076/.000030 MIN.

OVERALL NICKEL: 0.00127/.000050 MIN.

\*THE PRIMARY SHIPPING CARTON WILL BE LABELED

\*COMPLIANT TO RoHS DIRECTIVE 2002/95/EC

AND ELV ANNEX II OF DIRECTIVE 2000/53/EC\*.

CARTONS WITHOUT THIS LABEL MAY CONTAIN

PRODUCT WITH TIN-LEAD PLATING.

3. PRODUCT SPECIFICATION: PS-08-50.

4. PACKAGING INFO: SEE TABLE.

5. SOLDERABILITY: PER SMES-152.

6. PIN PUSH-OUT FORCE: PRIOR TO SOLDERING, 3 LB MIN.

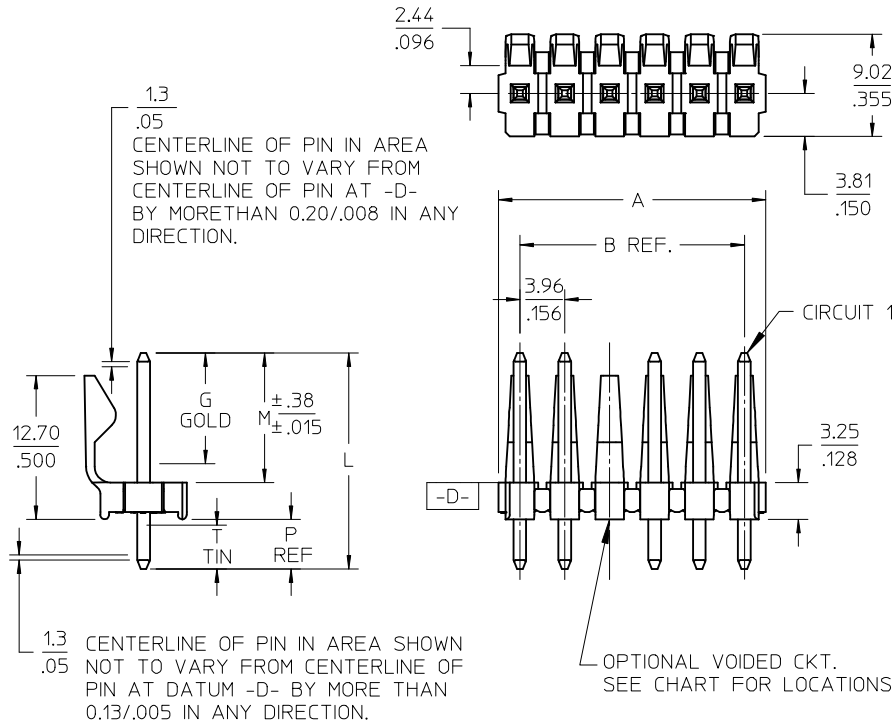
FORCE IN EITHER DIRECTION SHALL BE REQUIRED TO

PUSH THE PIN OUT OF THE HEADER.

7. PARTS ARE STACKABLE END TO END ON 3.96/.156 CENTERS.

(SPACING TABS MUST BE REMOVED ON CIRCUIT SIZES

1-23 BEFORE PARTS ARE STACKABLE.

8. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF  
COSMETIC SPECIFICATION PS-45499-002.

OPTION -PIN- PACKING  
A=BRASS -2161- BULK PACK  
B=BRASS -2161- TUBE PACK  
C=BRASS -43294- BULK PACK

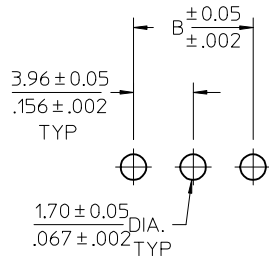
A-41671- \* N \* \*-\*

NO OF CKTS

DIM M,L,P

PLATING

VOID LOCATIONS  
BLANK=NO VOIDS  
NO=CKT NO VOIDED  
MULT-VOIDS=51 UP



PCB LAYOUT: COMPONENT SIDE  
RECOMMENDED PCB THICKNESS:  
1.57±.18/.062±.007

| CHANGE PIN          |            | QUALITY<br>SYMBOLS | DESCRIPTION |
|---------------------|------------|--------------------|-------------|
| EC NO: UCP2009-1378 | 2008/12/08 |                    |             |
| DRWN: MK IPER       | 2008/12/08 | ▽=0<br>▽=0         | REV         |
| CHKD: SSOUSEK       | 2008/12/08 |                    |             |
| APPR: FSM TH        | 2008/12/08 | ▽=0                | REV         |
| AJ                  |            |                    |             |

|     |     |
|-----|-----|
| 2-* | AJ  |
| 1   | AJ  |
| SHT | REV |

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

| DRAWN BY    | DATE       |
|-------------|------------|
| JSCHAFFER   | 2004/04/05 |
| CHECKED BY  | DATE       |
| KSAMIEC     | 2004/04/05 |
| APPROVED BY | DATE       |
| MARGULIS    | 2004/04/05 |

MATERIAL NO.

SEE CHART

SIZE  
A

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX  
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

SCALE  
1.5:1DESIGN UNITS  
INCHTHIRD ANGLE  
PROJECTION

TITLE  
KK 156 HEADER ASSEMBLY  
FRICTION LOCK STRAIGHT  
BREAKAWAY

MOLEX MOLEX INCORPORATED

DOCUMENT NO.

SD-41671-001

SHEET NO.

1 OF 8

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|                         |              |                 |                             |                 |                             |                 |
|-------------------------|--------------|-----------------|-----------------------------|-----------------|-----------------------------|-----------------|
|                         | Group No:    | A-41671-ANA102  | Group No:                   | A-41671-CNA208  | Group No:                   | A-41671-CNA228  |
|                         | Pin No:      | 2161-1 (102)    | Pin No:                     | 43294-0236      | Pin No:                     | 43294-0237      |
|                         | Plating:     | 102 TIN         | Plating:                    | 208 15 GOLD     | Plating:                    | 228 30 GOLD     |
|                         | Pin Length L | .750 / 19.05    | Pin Length L                | .750 / 19.05    | Pin Length L                | .750 / 19.05    |
|                         | Mating M     | .450 / 11.43    | Mating M                    | .450 / 11.43    | Mating M                    | .450 / 11.43    |
|                         | Gold Loc G   | NA              | Gold Loc G                  | .270 / 6.86     | Gold Loc G                  | .270 / 6.86     |
|                         | PC Tail P    | .172 / 4.37     | PC Tail P                   | .172 / 4.37     | PC Tail P                   | .172 / 4.37     |
|                         | Tin Loc T    | OVERALL         | Tin Loc T                   | .160 / 4.06     | Tin Loc T                   | .160 / 4.06     |
|                         | Voided Ckts  | NONE            | Voided Ckts                 | NONE            | Voided Ckts                 | NONE            |
|                         | Pack Per     | PK-41671-001    | Pack Per                    | PK-41671-001    | Pack Per                    | PK-41671-001    |
| Ckts                    | Material No  | Engineer Number | Material No                 | Engineer Number | Material No                 | Engineer Number |
| 2                       | 26-48-1025   | A-41671-A02A102 | 41671-0001                  | A-41671-C02A208 | 41671-0024                  | A-41671-C02A228 |
| 3                       | 26-48-1035   | A-41671-A03A102 | 41671-0002                  | A-41671-C03A208 | 41671-0025                  | A-41671-C03A228 |
| 4                       | 26-48-1045   | A-41671-A04A102 | 41671-0003                  | A-41671-C04A208 | 41671-0026                  | A-41671-C04A228 |
| 5                       | 26-48-1055   | A-41671-A05A102 | 41671-0004                  | A-41671-C05A208 | 41671-0027                  | A-41671-C05A228 |
| 6                       | 26-48-1065   | A-41671-A06A102 | 41671-0005                  | A-41671-C06A208 | 41671-0028                  | A-41671-C06A228 |
| 7                       | 26-48-1075   | A-41671-A07A102 | 41671-0006                  | A-41671-C07A208 | 41671-0029                  | A-41671-C07A228 |
| 8                       | 26-48-1085   | A-41671-A08A102 | 41671-0007                  | A-41671-C08A208 | 41671-0030                  | A-41671-C08A228 |
| 9                       | 26-48-1095   | A-41671-A09A102 | 41671-0008                  | A-41671-C09A208 | 41671-0031                  | A-41671-C09A228 |
| 10                      | 26-48-1105   | A-41671-A10A102 | 41671-0009                  | A-41671-C10A208 | 41671-0032                  | A-41671-C10A228 |
| 11                      | 26-48-1115   | A-41671-A11A102 | 41671-0010                  | A-41671-C11A208 | 41671-0033                  | A-41671-C11A228 |
| 12                      | 26-48-1125   | A-41671-A12A102 | 41671-0011                  | A-41671-C12A208 | 41671-0034                  | A-41671-C12A228 |
| 13                      | 26-48-1135   | A-41671-A13A102 | 41671-0012                  | A-41671-C13A208 | 41671-0035                  | A-41671-C13A228 |
| 14                      | 26-48-1145   | A-41671-A14A102 | 41671-0013                  | A-41671-C14A208 | 41671-0036                  | A-41671-C14A228 |
| 15                      | 26-48-1155   | A-41671-A15A102 | 41671-0014                  | A-41671-C15A208 | 41671-0037                  | A-41671-C15A228 |
| 16                      | 26-48-1165   | A-41671-A16A102 | 41671-0015                  | A-41671-C16A208 | 41671-0038                  | A-41671-C16A228 |
| 17                      | 26-48-1175   | A-41671-A17A102 | 41671-0016                  | A-41671-C17A208 | 41671-0039                  | A-41671-C17A228 |
| 18                      | 26-48-1185   | A-41671-A18A102 | 41671-0017                  | A-41671-C18A208 | 41671-0040                  | A-41671-C18A228 |
| 19                      | 26-48-1195   | A-41671-A19A102 | 41671-0018                  | A-41671-C19A208 | 41671-0041                  | A-41671-C19A228 |
| 20                      | 26-48-1205   | A-41671-A20A102 | 41671-0019                  | A-41671-C20A208 | 41671-0042                  | A-41671-C20A228 |
| 21                      | 26-48-1215   | A-41671-A21A102 | 41671-0020                  | A-41671-C21A208 | 41671-0043                  | A-41671-C21A228 |
| 22                      | 26-48-1225   | A-41671-A22A102 | 41671-0021                  | A-41671-C22A208 | 41671-0044                  | A-41671-C22A228 |
| 23                      | 26-48-1235   | A-41671-A23A102 | 41671-0022                  | A-41671-C23A208 | 41671-0045                  | A-41671-C23A228 |
| 24                      | 26-48-1245   | A-41671-A24A102 | 41671-0023                  | A-41671-C24A208 | 41671-0046                  | A-41671-C24A228 |
| STD TIN CATALOG PRODUCT |              |                 | STD 15 GOLD CATALOG PRODUCT |                 | STD 30 GOLD CATALOG PRODUCT |                 |

|                                             |                                                                             |                                                                                    |                               |
|---------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------|
| REV:<br><b>AJ</b>                           | ECR/ECN INFORMATION:<br>EC. NO.      UCP2009-1378<br>DATE:        12/8/2008 | TITLE:<br><b>KK .156 HEADER ASSEMBLY<br/>FRICTION LOCK STRAIGHT<br/>2-24 CKTS.</b> | SHEET No.<br><b>- 2 -</b>     |
| DOCUMENT NUMBER:<br><b>SD – 41671 - 001</b> |                                                                             | CREATED / REVISED BY:<br><b>MKIPPER</b>                                            | CHECKED BY:<br><b>SSOUSEK</b> |
|                                             |                                                                             | APPROVED BY:<br><b>FSMITH</b>                                                      |                               |

|      |              |                 |              |                 |              |                 |              |                 |
|------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
|      | Group No:    | A-41671-ANA501  | Group No:    | A-41671-ANA503  | Group No:    | A-41671-AND102  | Group No:    | A-41671-ANB102  |
|      | Pin No:      | 2161-1 (501)    | Pin No:      | 2161 – 1(503)   | Pin No:      | 2161-56 (102)   | Pin No:      | 2161-1 (102)    |
|      | Plating:     | 501 GOLD        | Plating:     | 503 GOLD        | Plating:     | 102 TIN         | Plating:     | 102 TIN         |
|      | Pin Length L | .750 / 19.05    | Pin Length L | .750 / 19.05    | Pin Length L | .703 / 17.86    | Pin Length L | .750 / 19.05    |
|      | Mating M     | .450 / 11.43    | Mating M     | .450 / 11.43    | Mating M     | .450 / 11.43    | Mating M     | .523 / 13.28    |
|      | Gold Loc G   | OVERALL         | Gold Loc G   | OVERALL         | Gold Loc G   | NA              | Gold Loc G   | NA              |
|      | PC Tail P    | .172 / 4.37     | PC Tail P    | .172 / 4.37     | PC Tail P    | .125 / 3.18     | PC Tail P    | .099 / 2.51     |
|      | Tin Loc T    | NA              | Tin Loc T    | NA              | Tin Loc T    | OVERALL         | Tin Loc T    | OVERALL         |
|      | Voided Ckts  | NONE            | Voided Ckts  | NONE            | Voided Ckts  | NONE            | Voided Ckts  | NONE            |
|      | Pack Per     | PK-41671-001    | Pack Per     | PK-41671-001    | Pack Per     | PK-41671-001    | Pack Per     | PK-41671-001    |
| Ckts | Material No  | Engineer Number | Material No  | Engineer Number | Material No  | Engineer Number | Material No  | Engineer Number |
| 2    | 26-48-2025   | A-41671-A02A501 | 26-48-9026   | A-41671-A02A503 | 26-48-9023   | A-41671-A02D102 | 41671-0064   | A-41671-A02B102 |
| 3    | 26-48-2035   | A-41671-A03A501 | 41671-0047   | A-41671-A03A503 | 26-48-9033   | A-41671-A03D102 | 41671-0065   | A-41671-A03B102 |
| 4    | 26-48-2045   | A-41671-A04A501 | 41671-0048   | A-41671-A04A503 | 26-48-9043   | A-41671-A04D102 | 41671-0066   | A-41671-A04B102 |
| 5    | 26-48-2055   | A-41671-A05A501 | 26-48-9056   | A-41671-A05A503 | 26-48-9053   | A-41671-A05D102 | 41671-0067   | A-41671-A05B102 |
| 6    | 26-48-2065   | A-41671-A06A501 | 41671-0049   | A-41671-A06A503 | 26-48-9063   | A-41671-A06D102 | 41671-0068   | A-41671-A06B102 |
| 7    | 26-48-2075   | A-41671-A07A501 | 41671-0050   | A-41671-A07A503 | 26-48-9073   | A-41671-A07D102 | 41671-0069   | A-41671-A07B102 |
| 8    | 26-48-2085   | A-41671-A08A501 | 41671-0051   | A-41671-A08A503 | 26-48-9083   | A-41671-A08D102 | 41671-0070   | A-41671-A08B102 |
| 9    | 26-48-2095   | A-41671-A09A501 | 26-48-9096   | A-41671-A09A503 | 26-48-9093   | A-41671-A09D102 | 26-48-6095   | A-41671-A09B102 |
| 10   | 26-48-2105   | A-41671-A10A501 | 26-48-9106   | A-41671-A10A503 | 26-48-9103   | A-41671-A10D102 | 41671-0071   | A-41671-A10B102 |
| 11   | 26-48-2115   | A-41671-A11A501 | 41671-0052   | A-41671-A11A503 | 26-48-9113   | A-41671-A11D102 | 41671-0072   | A-41671-A11B102 |
| 12   | 26-48-2125   | A-41671-A12A501 | 26-48-9126   | A-41671-A12A503 | 26-48-9123   | A-41671-A12D102 | 41671-0073   | A-41671-A12B102 |
| 13   | 26-48-2135   | A-41671-A13A501 | 41671-0053   | A-41671-A13A503 | 26-48-9133   | A-41671-A13D102 | 41671-0074   | A-41671-A13B102 |
| 14   | 26-48-2145   | A-41671-A14A501 | 41671-0054   | A-41671-A14A503 | 26-48-9143   | A-41671-A14D102 | 41671-0075   | A-41671-A14B102 |
| 15   | 26-48-2155   | A-41671-A15A501 | 41671-0055   | A-41671-A15A503 | 26-48-9153   | A-41671-A15D102 | 41671-0076   | A-41671-A15B102 |
| 16   | 26-48-2165   | A-41671-A16A501 | 41671-0056   | A-41671-A16A503 | 26-48-9163   | A-41671-A16D102 | 41671-0077   | A-41671-A16B102 |
| 17   | 26-48-2175   | A-41671-A17A501 | 41671-0057   | A-41671-A17A503 | 26-48-9173   | A-41671-A17D102 | 41671-0078   | A-41671-A17B102 |
| 18   | 26-48-2185   | A-41671-A18A501 | 41671-0058   | A-41671-A18A503 | 26-48-9183   | A-41671-A18D102 | 41671-0079   | A-41671-A18B102 |
| 19   | 26-48-2195   | A-41671-A19A501 | 41671-0059   | A-41671-A19A503 | 26-48-9193   | A-41671-A19D102 | 41671-0080   | A-41671-A19B102 |
| 20   | 26-48-2205   | A-41671-A20A501 | 41671-0060   | A-41671-A20A503 | 26-48-9203   | A-41671-A20D102 | 41671-0081   | A-41671-A20B102 |
| 21   | 26-48-2215   | A-41671-A21A501 | 41671-0061   | A-41671-A21A503 | 26-48-9213   | A-41671-A21D102 | 41671-0082   | A-41671-A21B102 |
| 22   | 26-48-2225   | A-41671-A22A501 | 41671-0062   | A-41671-A22A503 | 26-48-9223   | A-41671-A22D102 | 41671-0083   | A-41671-A22B102 |
| 23   | 26-48-2235   | A-41671-A23A501 | 41671-0063   | A-41671-A23A503 | 26-48-9233   | A-41671-A23D102 | 41671-0084   | A-41671-A23B102 |
| 24   | 26-48-2245   | A-41671-A24A501 | 26-48-9246   | A-41671-A24A503 | 26-48-9243   | A-41671-A24D102 | 26-48-6245   | A-41671-A24B102 |

|                                                                   |                                                                                                          |                                                                                               |                                          |                                          |                                      |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------|--------------------------------------|
| <u>REV:</u><br><br><b>AJ</b>                                      | <u>ECR/ECN INFORMATION:</u><br><b>EC. NO.       UCP2009-1378</b><br><br><b>DATE:           12/8/2008</b> | <u>TITLE:</u><br><br><b>KK .156 HEADER ASSEMBLY<br/>FRICTION LOCK STRAIGHT<br/>2-24 CKTS.</b> |                                          |                                          | <u>SHEET No.</u><br><br><b>- 3 -</b> |
| <u>DOCUMENT NUMBER:</u><br><br><b>SD – 41671 - 001</b>            |                                                                                                          | <u>CREATED / REVISED BY:</u><br><br><b>MKIPPER</b>                                            | <u>CHECKED BY:</u><br><br><b>SSOUSEK</b> | <u>APPROVED BY:</u><br><br><b>FSMITH</b> |                                      |
| <small>TEMPLATE FILENAME: PRODUCT_SPEC [SIZE_A](V.1). DOC</small> |                                                                                                          |                                                                                               |                                          |                                          |                                      |

|      |              |                 |              |                 |              |                 |              |                 |
|------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
|      | Group No:    | A-41671-ANF102  | Group No:    | A-41671-ANB501  | Group No:    | A-41671-ANF501  | Group No:    | A-41671-ANN102  |
|      | Pin No:      | 2161-24 (102)   | Pin No:      | 2161-1 (501)    | Pin No:      | 2161-24 (501)   | Pin No:      | 2161-19 (102)   |
|      | Plating:     | 102 TIN         | Plating:     | 501 GOLD        | Plating:     | 501 GOLD        | Plating:     | 102 TIN         |
|      | Pin Length L | .800 / 20.32    | Pin Length L | .750 / 19.05    | Pin Length L | .800 / 20.32    | Pin Length L | 1.032 / 26.21   |
|      | Mating M     | .480 / 12.19    | Mating M     | .523 / 13.28    | Mating M     | .480 / 12.19    | Mating M     | .450 / 11.43    |
|      | Gold Loc G   | NA              | Gold Loc G   | OVERALL         | Gold Loc G   | OVERALL         | Gold Loc G   | NA              |
|      | PC Tail P    | .192 / 4.88     | PC Tail P    | .099 / 2.51     | PC Tail P    | .192 / 4.88     | PC Tail P    | .454 / 11.53    |
|      | Tin Loc T    | OVERALL         | Tin Loc T    | NA              | Tin Loc T    | NA              | Tin Loc T    | OVERALL         |
|      | Voided Ckts  | NONE            | Voided Ckts  | NONE            | Voided Ckts  | NONE            | Voided Ckts  | NONE            |
|      | Pack Per     | PK-41671-001    | Pack Per     | PK-41671-001    | Pack Per     | PK-41671-001    | Pack Per     | PK-41671-001    |
| Ckts | Material No  | Engineer Number | Material No  | Engineer Number | Material No  | Engineer Number | Material No  | Engineer Number |
| 2    | 26-48-4026   | A-41671-A02F102 | 26-48-2027   | A-41671-A02B501 | 41671-0250   | A-41671-A02F501 |              | A-41671-A02N102 |
| 3    | 26-48-4036   | A-41671-A03F102 | 26-48-2037   | A-41671-A03B501 | 41671-0350   | A-41671-A03F501 |              | A-41671-A03N102 |
| 4    | 26-48-4046   | A-41671-A04F102 | 26-48-2047   | A-41671-A04B501 | 41671-0450   | A-41671-A04F501 |              | A-41671-A04N102 |
| 5    | 26-48-4056   | A-41671-A05F102 | 26-48-2057   | A-41671-A05B501 | 41671-0550   | A-41671-A05F501 |              | A-41671-A05N102 |
| 6    | 26-48-4066   | A-41671-A06F102 | 26-48-2067   | A-41671-A06B501 | 41671-0650   | A-41671-A06F501 |              | A-41671-A06N102 |
| 7    | 26-48-4076   | A-41671-A07F102 | 26-48-2077   | A-41671-A07B501 | 41671-0750   | A-41671-A07F501 |              | A-41671-A07N102 |
| 8    | 26-48-4086   | A-41671-A08F102 | 26-48-2087   | A-41671-A08B501 | 41671-0850   | A-41671-A08F501 |              | A-41671-A08N102 |
| 9    | 26-48-4096   | A-41671-A09F102 | 26-48-2097   | A-41671-A09B501 | 41671-0950   | A-41671-A09F501 |              | A-41671-A09N102 |
| 10   | 26-48-4106   | A-41671-A10F102 | 26-48-2107   | A-41671-A10B501 | 41671-1050   | A-41671-A10F501 |              | A-41671-A10N102 |
| 11   | 26-48-4116   | A-41671-A11F102 | 26-48-2117   | A-41671-A11B501 | 41671-1150   | A-41671-A11F501 |              | A-41671-A11N102 |
| 12   | 26-48-4126   | A-41671-A12F102 | 26-48-2127   | A-41671-A12B501 | 41671-1250   | A-41671-A12F501 |              | A-41671-A12N102 |
| 13   | 26-48-4136   | A-41671-A13F102 | 26-48-2137   | A-41671-A13B501 | 41671-1350   | A-41671-A13F501 |              | A-41671-A13N102 |
| 14   | 26-48-4146   | A-41671-A14F102 | 26-48-2147   | A-41671-A14B501 | 41671-1450   | A-41671-A14F501 |              | A-41671-A14N102 |
| 15   | 26-48-4156   | A-41671-A15F102 | 26-48-2157   | A-41671-A15B501 | 41671-1550   | A-41671-A15F501 |              | A-41671-A15N102 |
| 16   | 26-48-4166   | A-41671-A16F102 | 26-48-2167   | A-41671-A16B501 | 41671-1650   | A-41671-A16F501 |              | A-41671-A16N102 |
| 17   | 26-48-4176   | A-41671-A17F102 | 26-48-2177   | A-41671-A17B501 | 41671-1750   | A-41671-A17F501 |              | A-41671-A17N102 |
| 18   | 26-48-4186   | A-41671-A18F102 | 26-48-2187   | A-41671-A18B501 | 41671-1850   | A-41671-A18F501 |              | A-41671-A18N102 |
| 19   | 26-48-4196   | A-41671-A19F102 | 26-48-2197   | A-41671-A19B501 | 41671-1950   | A-41671-A19F501 |              | A-41671-A19N102 |
| 20   | 26-48-4206   | A-41671-A20F102 | 26-48-2207   | A-41671-A20B501 | 41671-2050   | A-41671-A20F501 |              | A-41671-A20N102 |
| 21   | 26-48-4216   | A-41671-A21F102 | 26-48-2217   | A-41671-A21B501 | 41671-2150   | A-41671-A21F501 |              | A-41671-A21N102 |
| 22   | 26-48-4226   | A-41671-A22F102 | 26-48-2227   | A-41671-A22B501 | 41671-2250   | A-41671-A22F501 |              | A-41671-A22N102 |
| 23   | 26-48-4236   | A-41671-A23F102 | 26-48-2237   | A-41671-A23B501 | 41671-2350   | A-41671-A23F501 |              | A-41671-A23N102 |
| 24   | 26-48-4246   | A-41671-A24F102 | 26-48-2247   | A-41671-A24B501 | 41671-2450   | A-41671-A24F501 | 26-48-8247   | A-41671-A24N102 |

|                  |                      |                       |                                                                 |              |              |
|------------------|----------------------|-----------------------|-----------------------------------------------------------------|--------------|--------------|
| REV:             | ECR/ECN INFORMATION: | TITLE:                | KK .156 HEADER ASSEMBLY<br>FRICTION LOCK STRAIGHT<br>2-24 CKTS. |              | SHEET No.    |
| <b>AJ</b>        | EC. NO. UCP2009-1378 |                       |                                                                 |              | <b>- 4 -</b> |
| DATE:            | 12/8/2008            |                       |                                                                 |              |              |
| DOCUMENT NUMBER: | SD – 41671 - 001     | CREATED / REVISED BY: | CHECKED BY:                                                     | APPROVED BY: |              |
|                  |                      | MKIPPER               | SSOUSEK                                                         | FSMITH       |              |

|      |                           |                 |                           |                 |                            |                 |                           |                 |
|------|---------------------------|-----------------|---------------------------|-----------------|----------------------------|-----------------|---------------------------|-----------------|
| Ckts | Group No: A-41671-CNP228  |                 | Group No: A-41671-CNR208  |                 | Group No: A-41671-ANT102   |                 | Group No: A-41671-ANA122  |                 |
|      | Pin No: 43294-0282        |                 | Pin No: 43294-0344        |                 | Pin No: 2161-37 (102)      |                 | Pin No: 2161-1 (122)      |                 |
|      | Plating: 228 30 GOLD      |                 | Plating: 208 15 GOLD      |                 | Plating: 102 TIN           |                 | Plating: 122 TIN          |                 |
|      | Pin Length L .800 / 20.32 |                 | Pin Length L .870 / 22.10 |                 | Pin Length L 1.100 / 27.94 |                 | Pin Length L .750 / 19.05 |                 |
|      | Mating M .523 / 13.28     |                 | Mating M .450 / 11.43     |                 | Mating M .486 / 12.34      |                 | Mating M .450 / 11.43     |                 |
|      | Gold Loc G .350 / 8.89    |                 | Gold Loc G .400 / 10.16   |                 | Gold Loc G NA              |                 | Gold Loc G NA             |                 |
|      | PC Tail P .149 / 3.78     |                 | PC Tail P .292 / 7.42     |                 | PC Tail P .486 / 12.34     |                 | PC Tail P .172 / 4.37     |                 |
|      | Tin Loc T .200 / 5.08     |                 | Tin Loc T .200 / 5.08     |                 | Tin Loc T OVERALL          |                 | Tin Loc T OVERALL         |                 |
|      | Voided Ckts NONE          |                 | Voided Ckts NONE          |                 | Voided Ckts NONE           |                 | Voided Ckts NONE          |                 |
|      | Pack Per PK-41671-001     |                 | Pack Per PK-41671-001     |                 | Pack Per PK-41671-001      |                 | Pack Per PK-41671-001     |                 |
|      | Material No               | Engineer Number | Material No               | Engineer Number | Material No                | Engineer Number | Material No               | Engineer Number |
|      | 41671-2451                | A-41671-C02P228 | 41671-2474                | A-41671-C02R208 | 41671-3400                 | A-41671-A02T102 | 41671-3423                | A-41671-A02A122 |
|      | 41671-2452                | A-41671-C03P228 | 41671-2475                | A-41671-C03R208 | 41671-3401                 | A-41671-A03T102 | 41671-3424                | A-41671-A03A122 |
|      | 41671-2453                | A-41671-C04P228 | 41671-2476                | A-41671-C04R208 | 41671-3402                 | A-41671-A04T102 | 41671-3425                | A-41671-A04A122 |
|      | 41671-2454                | A-41671-C05P228 | 41671-2477                | A-41671-C05R208 | 41671-3403                 | A-41671-A05T102 | 41671-3426                | A-41671-A05A122 |
|      | 41671-2455                | A-41671-C06P228 | 41671-2478                | A-41671-C06R208 | 41671-3404                 | A-41671-A06T102 | 41671-3427                | A-41671-A06A122 |
|      | 41671-2456                | A-41671-C07P228 | 41671-2479                | A-41671-C07R208 | 41671-3405                 | A-41671-A07T102 | 41671-3428                | A-41671-A07A122 |
|      | 41671-2457                | A-41671-C08P228 | 41671-2480                | A-41671-C08R208 | 41671-3406                 | A-41671-A08T102 | 41671-3429                | A-41671-A08A122 |
|      | 41671-2458                | A-41671-C09P228 | 41671-2481                | A-41671-C09R208 | 41671-3407                 | A-41671-A09T102 | 41671-3430                | A-41671-A09A122 |
|      | 41671-2459                | A-41671-C10P228 | 41671-2482                | A-41671-C10R208 | 41671-3408                 | A-41671-A10T102 | 41671-3431                | A-41671-A10A122 |
|      | 41671-2460                | A-41671-C11P228 | 41671-2483                | A-41671-C11R208 | 41671-3409                 | A-41671-A11T102 | 41671-3432                | A-41671-A11A122 |
|      | 41671-2461                | A-41671-C12P228 | 41671-2484                | A-41671-C12R208 | 41671-3410                 | A-41671-A12T102 | 41671-3433                | A-41671-A12A122 |
|      | 41671-2462                | A-41671-C13P228 | 41671-2485                | A-41671-C13R208 | 41671-3411                 | A-41671-A13T102 | 41671-3434                | A-41671-A13A122 |
|      | 41671-2463                | A-41671-C14P228 | 41671-2486                | A-41671-C14R208 | 41671-3412                 | A-41671-A14T102 | 41671-3435                | A-41671-A14A122 |
|      | 41671-2464                | A-41671-C15P228 | 41671-2487                | A-41671-C15R208 | 41671-3413                 | A-41671-A15T102 | 41671-3436                | A-41671-A15A122 |
|      | 41671-2465                | A-41671-C16P228 | 41671-2488                | A-41671-C16R208 | 41671-3414                 | A-41671-A16T102 | 41671-3437                | A-41671-A16A122 |
|      | 41671-2466                | A-41671-C17P228 | 41671-2489                | A-41671-C17R208 | 41671-3415                 | A-41671-A17T102 | 41671-3438                | A-41671-A17A122 |
|      | 41671-2467                | A-41671-C18P228 | 41671-2490                | A-41671-C18R208 | 41671-3416                 | A-41671-A18T102 | 41671-3439                | A-41671-A18A122 |
|      | 41671-2468                | A-41671-C19P228 | 41671-2491                | A-41671-C19R208 | 41671-3417                 | A-41671-A19T102 | 41671-3440                | A-41671-A19A122 |
|      | 41671-2469                | A-41671-C20P228 | 41671-2492                | A-41671-C20R208 | 41671-3418                 | A-41671-A20T102 | 41671-3441                | A-41671-A20A122 |
|      | 41671-2470                | A-41671-C21P228 | 41671-2493                | A-41671-C21R208 | 41671-3419                 | A-41671-A21T102 | 41671-3442                | A-41671-A21A122 |
|      | 41671-2471                | A-41671-C22P228 | 41671-2494                | A-41671-C22R208 | 41671-3420                 | A-41671-A22T102 | 41671-3443                | A-41671-A22A122 |
|      | 41671-2472                | A-41671-C23P228 | 41671-2495                | A-41671-C23R208 | 41671-3421                 | A-41671-A23T102 | 41671-3444                | A-41671-A23A122 |
|      | 41671-2473                | A-41671-C24P228 | 41671-2496                | A-41671-C24R208 | 41671-3422                 | A-41671-A24T102 | 41671-3445                | A-41671-A24A122 |

|                                             |                                                                 |                                                                           |                               |
|---------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------|
| REV:<br><b>AJ</b>                           | ECR/ECN INFORMATION:<br>EC. NO. UCP2009-1378<br>DATE: 12/8/2008 | TITLE:<br>KK .156 HEADER ASSEMBLY<br>FRICTION LOCK STRAIGHT<br>2-24 CKTS. | SHEET No.<br><b>- 5 -</b>     |
| DOCUMENT NUMBER:<br><b>SD – 41671 - 001</b> |                                                                 | CREATED / REVISED BY:<br><b>MKIPPER</b>                                   | CHECKED BY:<br><b>SSOUSEK</b> |
|                                             |                                                                 | APPROVED BY:<br><b>FSMITH</b>                                             |                               |

TEMPLATE FILENAME: PRODUCT\_SPEC [SIZE\_A](V.1). DOC

|              |                                |           |              |                                |           |              |                                |                        |
|--------------|--------------------------------|-----------|--------------|--------------------------------|-----------|--------------|--------------------------------|------------------------|
| Group No:    | A-41671-ANA102-* REF SEE SHT 1 |           | Group No:    | A-41671-ANA102-* REF SEE SHT 1 |           | Group No:    | A-41671-ANA102-* REF SEE SHT 1 |                        |
| Pin No:      |                                |           | Pin No:      |                                |           | Pin No:      |                                |                        |
| Plating:     |                                |           | Plating:     |                                |           | Plating:     |                                |                        |
| Pin Length L |                                |           | Pin Length L |                                |           | Pin Length L |                                |                        |
| Mating M     |                                |           | Mating M     |                                |           | Mating M     |                                |                        |
| Gold Loc G   |                                |           | Gold Loc G   |                                |           | Gold Loc G   |                                |                        |
| PC Tail P    |                                |           | PC Tail P    |                                |           | PC Tail P    |                                |                        |
| Tin Loc T    |                                |           | Tin Loc T    |                                |           | Tin Loc T    |                                |                        |
| Voided Ckts  | SEE CHART BELOW                |           | Voided Ckts  | SEE CHART BELOW                |           | Voided Ckts  | SEE CHART BELOW                |                        |
| Pack Per     |                                |           | Pack Per     |                                |           | Pack Per     |                                |                        |
| Material No  | Engineer Number                | Void Ckts | Material No  | Engineer Number                | Void Ckts | Material No  | Engineer Number                | Void Ckts              |
| 26-50-3030   | A-41671-A03A102-2              | 2         | 26-50-3073   | A-41671-A07A102-3              | 3         | 26-50-3202   | A-41671-A20A102-51             | 2,4,6,8<br>10,12,14,16 |
| 26-50-3040   | A-41671-A04A102-2              | 2         | 26-50-5080   | A-41671-A08A102-51             | 2,4       | 26-50-3167   | A-41671-A16A102-53             | 2,4,6,8                |
| 26-50-3050   | A-41671-A05A102-2              | 2         | 26-50-3063   | A-41671-A06A102-3              | 3         | 26-50-3152   | A-41671-A15A102-52             | 4,6,8,10,12,14         |
| 26-50-3060   | A-41671-A06A102-2              | 2         | 26-50-3071   | A-41671-A07A102-52             | 2,4,6     | 26-50-3126   | A-41671-A12A102-53             | 2,3,5,6,8,10           |
| 26-50-3070   | A-41671-A07A102-2              | 2         | 26-50-3051   | A-41671-A05A102-51             | 2,4       | 26-50-3240   | A-41671-A24A102-2              | 2                      |
| 26-50-3080   | A-41671-A08A102-2              | 2         | 26-50-3062   | A-41671-A06A102-4              | 4         | 26-50-5090   | A-41671-A10A102-55             | 2,5                    |
| 26-50-3090   | A-41671-A09A102-2              | 2         | 26-50-3068   | A-41671-A06A102-6              | 6         | 41671-3100   | A-41671-A05A102-3              | 3                      |
| 26-50-3100   | A-41671-A10A102-2              | 2         | 26-50-3111   | A-41671-A11A102-51             | 5,10      | 41671-3112   | A-41671-A14A102-12             | 12                     |
| 26-50-3110   | A-41671-A11A102-2              | 2         | 26-50-3065   | A-41671-A06A102-5              | 5         | 41671-3113   | A-41671-A14A102-51             | 11, 12                 |
| 26-50-3120   | A-41671-A12A102-2              | 2         | 26-50-3054   | A-41671-A05A102-4              | 4         | 41671-3446   | A-41671-A06A102-55             | 1, 3, 5                |
| 26-50-3130   | A-41671-A13A102-2              | 2         | 26-50-3154   | A-41671-A15A102-4              | 4         |              |                                |                        |
| 26-50-3140   | A-41671-A14A102-2              | 2         | 26-50-3145   | A-41671-A14A102-55             | 2,4,8,12  |              |                                |                        |
| 26-50-3150   | A-41671-A15A102-2              | 2         | 26-50-3155   | A-41671-A15A102-54             | 3,10,13   |              |                                |                        |
| 26-50-3160   | A-41671-A16A102-2              | 2         | 26-50-3066   | A-41671-A6A102-54              | 2,4       |              |                                |                        |
| 26-50-3170   | A-41671-A17A102-2              | 2         | 26-50-3108   | A-41671-A10A102-53             | 3,10      |              |                                |                        |
| 26-50-3180   | A-41671-A18A102-2              | 2         | 26-50-3103   | A-41671-A10A102-7              | 7         |              |                                |                        |
| 26-50-3190   | A-41671-A19A102-2              | 2         | 26-50-3087   | A-41671-A8A102-52              | 5,7       |              |                                |                        |
| 26-50-3200   | A-41671-A20A102-2              | 2         | 26-50-5081   | A-41671-A08A102-6              | 6         |              |                                |                        |
| 26-50-3210   | A-41671-A21A102-2              | 2         | 26-50-3132   | A-41671-A13A102-5              | 5         |              |                                |                        |
| 26-50-3220   | A-41671-A22A102-2              | 2         | 26-50-3165   | A-41671-A16A102-52             | 2,15      |              |                                |                        |
| 26-50-3230   | A-41671-A23A102-2              | 2         | 41671-0085   | A-41671-A10A102-56             | 5,8       |              |                                |                        |

|                         |                           |                                                                 |                |
|-------------------------|---------------------------|-----------------------------------------------------------------|----------------|
| REV:                    | ECR/ECN INFORMATION:      | TITLE:                                                          | SHEET No.      |
| <b>AJ</b>               | EC. NO.      UCP2009-1378 | KK .156 HEADER ASSEMBLY<br>FRICTION LOCK STRAIGHT<br>2-24 CKTS. | <b>- 6 -</b>   |
|                         | DATE:          12/8/2008  |                                                                 |                |
| DOCUMENT NUMBER:        |                           | CREATED / REVISED BY:                                           | CHECKED BY:    |
| <b>SD – 41671 - 001</b> |                           | <b>MKIPPER</b>                                                  | <b>SSOUSEK</b> |
|                         |                           | APPROVED BY:                                                    |                |
|                         |                           | <b>FSMITH</b>                                                   |                |

TEMPLATE FILENAME: PRODUCT\_SPEC [SIZE\_A](V.1). DOC



