

6

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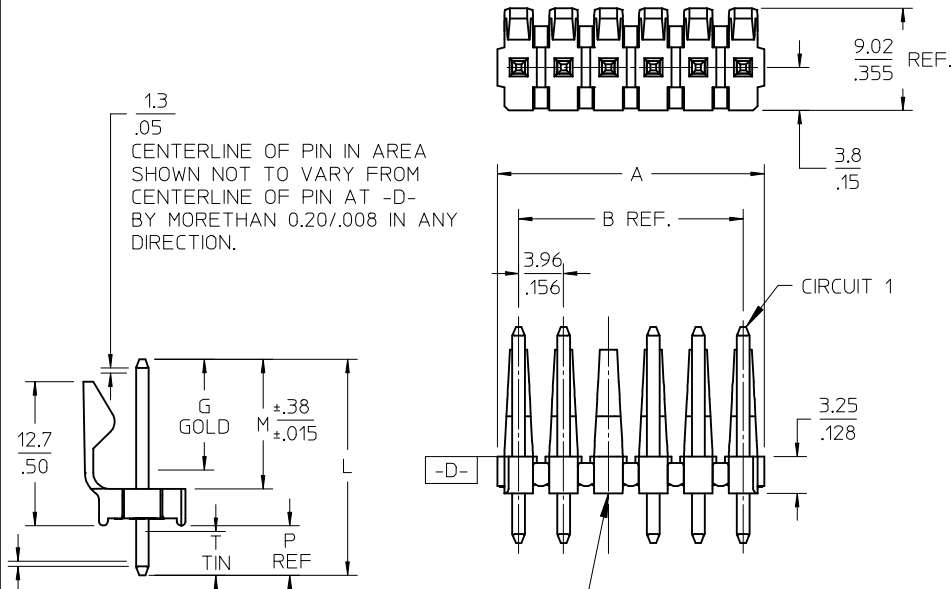
2

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| CKT | B              | A                          |
|-----|----------------|----------------------------|
| 2   | 3.96<br>.156   | 6.78/7.87<br>.267/1.310    |
| 3   | 7.92<br>.312   | 10.74/11.84<br>.423/1.466  |
| 4   | 11.89<br>.468  | 14.71/15.80<br>.579/1.622  |
| 5   | 15.85<br>.624  | 18.67/19.76<br>.735/1.778  |
| 6   | 19.81<br>.780  | 22.63/23.72<br>.891/1.934  |
| 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
  - (197) OVERALL REFLOWED MATTE TIN: 0.00152/.000060 MIN. OVER 0.00127/.000050 MIN. NICKEL OVERALL
  - (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.
  - (241) SELECT GOLD: 0.00051/.000020 MIN. SELECT TIN: 0.00254/.000100 MIN. OVERALL NICKEL UNDERPLATE: 0.00127/.000050 MIN.
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.



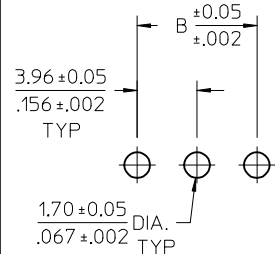
OPTIONAL VOIDED CKT.  
SEE CHART FOR LOCATIONS

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

OPTION -PIN- PACKING  
C=BRASS -43294- BULK PACK

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

| ADD PART NUMBERS    | DESCRIPTION | QUALITY SYMBOLS |
|---------------------|-------------|-----------------|
| EC NO: UCP2013-1575 | 2012/10/22  | ▽ = 0           |
| DRWN:MMSTROH        | 2012/22/10  | ▽ = 0           |
| CHKD:MKIPPER        | 2012/10/25  | ▽ = 0           |
| APPR:FSM TH         |             |                 |
| AK4                 | REV         |                 |

| GENERAL TOLERANCES (UNLESS SPECIFIED)                |        |        |
|------------------------------------------------------|--------|--------|
|                                                      | mm     | INCH   |
| 4 PLACES                                             | ± ---  | ± ---  |
| 3 PLACES                                             | ± ---  | ± .010 |
| 2 PLACES                                             | ± 0.25 | ± .015 |
| 1 PLACE                                              | ± 0.38 | ± ---  |
| 0 PLACE                                              | ±      | ±      |
| 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               |            |

| SCALE                                                         | DESIGN UNITS |
|---------------------------------------------------------------|--------------|
| 1.5:1                                                         | INCH         |
| TITLE                                                         |              |
| KK 156 HEADER ASSEMBLY<br>FRICTION LOCK STRAIGHT<br>BREAKAWAY |              |
| DOCUMENT NO.                                                  |              |
| SD-41671-001                                                  |              |

| THIRD ANGLE PROJECTION |  |
|------------------------|--|
| molex                  |  |
| SHEET NO.              |  |
| 1 OF *                 |  |

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|                         |              |                 |                             |                 |                             |                 |  |
|-------------------------|--------------|-----------------|-----------------------------|-----------------|-----------------------------|-----------------|--|
|                         | Group No:    | A-41671-CNA197  | Group No:                   | A-41671-CNA208  | Group No:                   | A-41671-CNA228  |  |
|                         | Pin No:      | 43294-0240      | Pin No:                     | 43294-0236      | Pin No:                     | 43294-0237      |  |
|                         | Plating:     | 197 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-C02A197 | 41671-0001                  | A-41671-C02A208 | 41671-0024                  | A-41671-C02A228 |  |
| 3                       | 26-48-1035   | A-41671-C03A197 | 41671-0002                  | A-41671-C03A208 | 41671-0025                  | A-41671-C03A228 |  |
| 4                       | 26-48-1045   | A-41671-C04A197 | 41671-0003                  | A-41671-C04A208 | 41671-0026                  | A-41671-C04A228 |  |
| 5                       | 26-48-1055   | A-41671-C05A197 | 41671-0004                  | A-41671-C05A208 | 41671-0027                  | A-41671-C05A228 |  |
| 6                       | 26-48-1065   | A-41671-C06A197 | 41671-0005                  | A-41671-C06A208 | 41671-0028                  | A-41671-C06A228 |  |
| 7                       | 26-48-1075   | A-41671-C07A197 | 41671-0006                  | A-41671-C07A208 | 41671-0029                  | A-41671-C07A228 |  |
| 8                       | 26-48-1085   | A-41671-C08A197 | 41671-0007                  | A-41671-C08A208 | 41671-0030                  | A-41671-C08A228 |  |
| 9                       | 26-48-1095   | A-41671-C09A197 | 41671-0008                  | A-41671-C09A208 | 41671-0031                  | A-41671-C09A228 |  |
| 10                      | 26-48-1105   | A-41671-C10A197 | 41671-0009                  | A-41671-C10A208 | 41671-0032                  | A-41671-C10A228 |  |
| 11                      | 26-48-1115   | A-41671-C11A197 | 41671-0010                  | A-41671-C11A208 | 41671-0033                  | A-41671-C11A228 |  |
| 12                      | 26-48-1125   | A-41671-C12A197 | 41671-0011                  | A-41671-C12A208 | 41671-0034                  | A-41671-C12A228 |  |
| 13                      | 26-48-1135   | A-41671-C13A197 | 41671-0012                  | A-41671-C13A208 | 41671-0035                  | A-41671-C13A228 |  |
| 14                      | 26-48-1145   | A-41671-C14A197 | 41671-0013                  | A-41671-C14A208 | 41671-0036                  | A-41671-C14A228 |  |
| 15                      | 26-48-1155   | A-41671-C15A197 | 41671-0014                  | A-41671-C15A208 | 41671-0037                  | A-41671-C15A228 |  |
| 16                      | 26-48-1165   | A-41671-C16A197 | 41671-0015                  | A-41671-C16A208 | 41671-0038                  | A-41671-C16A228 |  |
| 17                      | 26-48-1175   | A-41671-C17A197 | 41671-0016                  | A-41671-C17A208 | 41671-0039                  | A-41671-C17A228 |  |
| 18                      | 26-48-1185   | A-41671-C18A197 | 41671-0017                  | A-41671-C18A208 | 41671-0040                  | A-41671-C18A228 |  |
| 19                      | 26-48-1195   | A-41671-C19A197 | 41671-0018                  | A-41671-C19A208 | 41671-0041                  | A-41671-C19A228 |  |
| 20                      | 26-48-1205   | A-41671-C20A197 | 41671-0019                  | A-41671-C20A208 | 41671-0042                  | A-41671-C20A228 |  |
| 21                      | 26-48-1215   | A-41671-C21A197 | 41671-0020                  | A-41671-C21A208 | 41671-0043                  | A-41671-C21A228 |  |
| 22                      | 26-48-1225   | A-41671-C22A197 | 41671-0021                  | A-41671-C22A208 | 41671-0044                  | A-41671-C22A228 |  |
| 23                      | 26-48-1235   | A-41671-C23A197 | 41671-0022                  | A-41671-C23A208 | 41671-0045                  | A-41671-C23A228 |  |
| 24                      | 26-48-1245   | A-41671-C24A197 | 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:                    | ECR/ECN INFORMATION:  | TITLE:         | KK .156 HEADER ASSEMBLY<br>FRICTION LOCK STRAIGHT<br>2-24 CKTS. |  |  | SHEET No.    |
| <b>AK3</b>              | EC. NO. UCP2013-1575  |                |                                                                 |  |  | <b>- 2 -</b> |
| DATE:                   | 10/25/2012            |                |                                                                 |  |  |              |
| DOCUMENT NUMBER:        | CREATED / REVISED BY: | CHECKED BY:    | APPROVED BY:                                                    |  |  |              |
| <b>SD – 41671 - 001</b> | <b>MMSTROH</b>        | <b>MKIPPER</b> | <b>FSMITH</b>                                                   |  |  |              |

|      |                           |                 |                           |                 |                           |                 |                           |                 |
|------|---------------------------|-----------------|---------------------------|-----------------|---------------------------|-----------------|---------------------------|-----------------|
| Ckts | Group No: A-41671-CNA241  |                 | Group No: A-41671-CNA228  |                 | Group No: A-41671-CND197  |                 | Group No: A-41671-CNB197  |                 |
|      | Pin No: 43294-0241        |                 | Pin No: 43294-0237        |                 | Pin No: 43294-0193        |                 | Pin No: 43294-0240        |                 |
|      | Plating: 241 GOLD         |                 | Plating: 228 GOLD         |                 | Plating: 197 TIN          |                 | Plating: 197 TIN          |                 |
|      | Pin Length L .750 / 19.05 |                 | Pin Length L .750 / 19.05 |                 | Pin Length L .700 / 17.78 |                 | Pin Length L .750 / 19.05 |                 |
|      | Mating M .450 / 11.43     |                 | Mating M .450 / 11.43     |                 | Mating M .447 / 11.35     |                 | Mating M .523 / 13.28     |                 |
|      | Gold Loc G .270/ 6.86     |                 | Gold Loc G .270/ 6.86     |                 | 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 .160/ 4.06      |                 | Tin Loc T .160/ 4.06      |                 | 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 |
|      | 26-48-2025                | A-41671-C02A241 | 26-48-9026                | A-41671-C02A228 | 26-48-9023                | A-41671-C02D197 | 41671-0064                | A-41671-C02B197 |
|      | 26-48-2035                | A-41671-C03A241 | 41671-0047                | A-41671-C03A228 | 26-48-9033                | A-41671-C03D197 | 41671-0065                | A-41671-C03B197 |
|      | 26-48-2045                | A-41671-C04A241 | 41671-0048                | A-41671-C04A228 | 26-48-9043                | A-41671-C04D197 | 41671-0066                | A-41671-C04B197 |
|      | 26-48-2055                | A-41671-C05A241 | 26-48-9056                | A-41671-C05A228 | 26-48-9053                | A-41671-C05D197 | 41671-0067                | A-41671-C05B197 |
|      | 26-48-2065                | A-41671-C06A241 | 41671-0049                | A-41671-C06A228 | 26-48-9063                | A-41671-C06D197 | 41671-0068                | A-41671-C06B197 |
|      | 26-48-2075                | A-41671-C07A241 | 41671-0050                | A-41671-C07A228 | 26-48-9073                | A-41671-C07D197 | 41671-0069                | A-41671-C07B197 |
|      | 26-48-2085                | A-41671-C08A241 | 41671-0051                | A-41671-C08A228 | 26-48-9083                | A-41671-C08D197 | 41671-0070                | A-41671-C08B197 |
|      | 26-48-2095                | A-41671-C09A241 | 26-48-9096                | A-41671-C09A228 | 26-48-9093                | A-41671-C09D197 | 26-48-6095                | A-41671-C09B197 |
|      | 26-48-2105                | A-41671-C10A241 | 26-48-9106                | A-41671-C10A228 | 26-48-9103                | A-41671-C10D197 | 41671-0071                | A-41671-C10B197 |
|      | 26-48-2115                | A-41671-C11A241 | 41671-0052                | A-41671-C11A228 | 26-48-9113                | A-41671-C11D197 | 41671-0072                | A-41671-C11B197 |
|      | 26-48-2125                | A-41671-C12A241 | 26-48-9126                | A-41671-C12A228 | 26-48-9123                | A-41671-C12D197 | 41671-0073                | A-41671-C12B197 |
|      | 26-48-2135                | A-41671-C13A241 | 41671-0053                | A-41671-C13A228 | 26-48-9133                | A-41671-C13D197 | 41671-0074                | A-41671-C13B197 |
|      | 26-48-2145                | A-41671-C14A241 | 41671-0054                | A-41671-C14A228 | 26-48-9143                | A-41671-C14D197 | 41671-0075                | A-41671-C14B197 |
|      | 26-48-2155                | A-41671-C15A241 | 41671-0055                | A-41671-C15A228 | 26-48-9153                | A-41671-C15D197 | 41671-0076                | A-41671-C15B197 |
|      | 26-48-2165                | A-41671-C16A241 | 41671-0056                | A-41671-C16A228 | 26-48-9163                | A-41671-C16D197 | 41671-0077                | A-41671-C16B197 |
|      | 26-48-2175                | A-41671-C17A241 | 41671-0057                | A-41671-C17A228 | 26-48-9173                | A-41671-C17D197 | 41671-0078                | A-41671-C17B197 |
|      | 26-48-2185                | A-41671-C18A241 | 41671-0058                | A-41671-C18A228 | 26-48-9183                | A-41671-C18D197 | 41671-0079                | A-41671-C18B197 |
|      | 26-48-2195                | A-41671-C19A241 | 41671-0059                | A-41671-C19A228 | 26-48-9193                | A-41671-C19D197 | 41671-0080                | A-41671-C19B197 |
|      | 26-48-2205                | A-41671-C20A241 | 41671-0060                | A-41671-C20A228 | 26-48-9203                | A-41671-C20D197 | 41671-0081                | A-41671-C20B197 |
|      | 26-48-2215                | A-41671-C21A241 | 41671-0061                | A-41671-C21A228 | 26-48-9213                | A-41671-C21D197 | 41671-0082                | A-41671-C21B197 |
|      | 26-48-2225                | A-41671-C22A241 | 41671-0062                | A-41671-C22A228 | 26-48-9223                | A-41671-C22D197 | 41671-0083                | A-41671-C22B197 |
|      | 26-48-2235                | A-41671-C23A241 | 41671-0063                | A-41671-C23A228 | 26-48-9233                | A-41671-C23D197 | 41671-0084                | A-41671-C23B197 |
|      | 26-48-2245                | A-41671-C24A241 | 26-48-9246                | A-41671-C24A228 | 26-48-9243                | A-41671-C24D197 | 26-48-6245                | A-41671-C24B197 |

|                  |                      |                                                                 |              |              |
|------------------|----------------------|-----------------------------------------------------------------|--------------|--------------|
| REV:             | ECR/ECN INFORMATION: | TITLE:                                                          | SHEET No.    |              |
| <b>AK3</b>       | EC. NO. UCP2013-1575 | KK .156 HEADER ASSEMBLY<br>FRICTION LOCK STRAIGHT<br>2-24 CKTS. | <b>- 3 -</b> |              |
|                  | DATE: 10/25/2012     |                                                                 |              |              |
| DOCUMENT NUMBER: |                      | CREATED / REVISED BY:                                           | CHECKED BY:  | APPROVED BY: |
| SD – 41671 - 001 |                      | MMSTROH                                                         | MKIPPER      | FSMITH       |

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

|      |              |                 |              |                 |              |                 |              |                 |
|------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
|      | Group No:    | A-41671-CNF197  | Group No:    | A-41671-CNB241  | Group No:    | A-41671-CNF241  | Group No:    | A-41671-CNN197  |
|      | Pin No:      | 43294-0283      | Pin No:      | 43294-0241      | Pin No:      | 43294-0284      | Pin No:      | 43294-0500      |
|      | Plating:     | 197 TIN         | Plating:     | 241 GOLD        | Plating:     | 241 GOLD        | Plating:     | 197 TIN         |
|      | Pin Length L | .800 / 20.32    | Pin Length L | .750 / 19.05    | Pin Length L | .800 / 20.32    | Pin Length L | 1.030 / 26.16   |
|      | Mating M     | .480 / 12.19    | Mating M     | .523 / 13.28    | Mating M     | .480 / 12.19    | Mating M     | .448 / 11.38    |
|      | Gold Loc G   | NA              | Gold Loc G   | .270/ 6.86      | Gold Loc G   | .350/ 8.89      | 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    | .160/ 4.06      | Tin Loc T    | .200/ 5.08      | 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-C02F197 | 26-48-2027   | A-41671-C02B241 | 41671-0250   | A-41671-C02F241 |              | A-41671-C02N197 |
| 3    | 26-48-4036   | A-41671-C03F197 | 26-48-2037   | A-41671-C03B241 | 41671-0350   | A-41671-C03F241 |              | A-41671-C03N197 |
| 4    | 26-48-4046   | A-41671-C04F197 | 26-48-2047   | A-41671-C04B241 | 41671-0450   | A-41671-C04F241 |              | A-41671-C04N197 |
| 5    | 26-48-4056   | A-41671-C05F197 | 26-48-2057   | A-41671-C05B241 | 41671-0550   | A-41671-C05F241 |              | A-41671-C05N197 |
| 6    | 26-48-4066   | A-41671-C06F197 | 26-48-2067   | A-41671-C06B241 | 41671-0650   | A-41671-C06F241 |              | A-41671-C06N197 |
| 7    | 26-48-4076   | A-41671-C07F197 | 26-48-2077   | A-41671-C07B241 | 41671-0750   | A-41671-C07F241 |              | A-41671-C07N197 |
| 8    | 26-48-4086   | A-41671-C08F197 | 26-48-2087   | A-41671-C08B241 | 41671-0850   | A-41671-C08F241 |              | A-41671-C08N197 |
| 9    | 26-48-4096   | A-41671-C09F197 | 26-48-2097   | A-41671-C09B241 | 41671-0950   | A-41671-C09F241 |              | A-41671-C09N197 |
| 10   | 26-48-4106   | A-41671-C10F197 | 26-48-2107   | A-41671-C10B241 | 41671-1050   | A-41671-C10F241 |              | A-41671-C10N197 |
| 11   | 26-48-4116   | A-41671-C11F197 | 26-48-2117   | A-41671-C11B241 | 41671-1150   | A-41671-C11F241 |              | A-41671-C11N197 |
| 12   | 26-48-4126   | A-41671-C12F197 | 26-48-2127   | A-41671-C12B241 | 41671-1250   | A-41671-C12F241 |              | A-41671-C12N197 |
| 13   | 26-48-4136   | A-41671-C13F197 | 26-48-2137   | A-41671-C13B241 | 41671-1350   | A-41671-C13F241 |              | A-41671-C13N197 |
| 14   | 26-48-4146   | A-41671-C14F197 | 26-48-2147   | A-41671-C14B241 | 41671-1450   | A-41671-C14F241 |              | A-41671-C14N197 |
| 15   | 26-48-4156   | A-41671-C15F197 | 26-48-2157   | A-41671-C15B241 | 41671-1550   | A-41671-C15F241 |              | A-41671-C15N197 |
| 16   | 26-48-4166   | A-41671-C16F197 | 26-48-2167   | A-41671-C16B241 | 41671-1650   | A-41671-C16F241 |              | A-41671-C16N197 |
| 17   | 26-48-4176   | A-41671-C17F197 | 26-48-2177   | A-41671-C17B241 | 41671-1750   | A-41671-C17F241 |              | A-41671-C17N197 |
| 18   | 26-48-4186   | A-41671-C18F197 | 26-48-2187   | A-41671-C18B241 | 41671-1850   | A-41671-C18F241 |              | A-41671-C18N197 |
| 19   | 26-48-4196   | A-41671-C19F197 | 26-48-2197   | A-41671-C19B241 | 41671-1950   | A-41671-C19F241 |              | A-41671-C19N197 |
| 20   | 26-48-4206   | A-41671-C20F197 | 26-48-2207   | A-41671-C20B241 | 41671-2050   | A-41671-C20F241 |              | A-41671-C20N197 |
| 21   | 26-48-4216   | A-41671-C21F197 | 26-48-2217   | A-41671-C21B241 | 41671-2150   | A-41671-C21F241 |              | A-41671-C21N197 |
| 22   | 26-48-4226   | A-41671-C22F197 | 26-48-2227   | A-41671-C22B241 | 41671-2250   | A-41671-C22F241 |              | A-41671-C22N197 |
| 23   | 26-48-4236   | A-41671-C23F197 | 26-48-2237   | A-41671-C23B241 | 41671-2350   | A-41671-C23F241 |              | A-41671-C23N197 |
| 24   | 26-48-4246   | A-41671-C24F197 | 26-48-2247   | A-41671-C24B241 | 41671-2450   | A-41671-C24F241 | 26-48-8247   | A-41671-C24N197 |

|                  |                      |                       |                                                                 |              |              |
|------------------|----------------------|-----------------------|-----------------------------------------------------------------|--------------|--------------|
| REV:             | ECR/ECN INFORMATION: | TITLE:                | KK .156 HEADER ASSEMBLY<br>FRICTION LOCK STRAIGHT<br>2-24 CKTS. |              | SHEET No.    |
| <b>AK3</b>       | EC. NO. UCP2013-1575 |                       |                                                                 |              | <b>- 4 -</b> |
| DATE:            | 10/25/2012           |                       |                                                                 |              |              |
| DOCUMENT NUMBER: | SD – 41671 - 001     | CREATED / REVISED BY: | CHECKED BY:                                                     | APPROVED BY: |              |
|                  |                      | MMSTROH               | MKIPPER                                                         | FSMITH       |              |

|      |              |                 |              |                 |              |                 |              |                 |
|------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
|      | Group No:    | A-41671-CNP228  | Group No:    | A-41671-CNR208  | Group No:    | A-41671-CNT197  | Group No:    | A-41671-CNA197  |
|      | Pin No:      | 43294-0282      | Pin No:      | 43294-0344      | Pin No:      | 43294-0572      | Pin No:      | 43294-0240      |
|      | Plating:     | 228 30 GOLD     | Plating:     | 208 15 GOLD     | Plating:     | 197 TIN         | Plating:     | 197 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    |
| Ckts | Material No  | Engineer Number | Material No  | Engineer Number | Material No  | Engineer Number | Material No  | Engineer Number |
| 2    | 41671-2451   | A-41671-C02P228 | 41671-2474   | A-41671-C02R208 | 41671-3400   | A-41671-C02T197 | 41671-3423   | A-41671-C02A197 |
| 3    | 41671-2452   | A-41671-C03P228 | 41671-2475   | A-41671-C03R208 | 41671-3401   | A-41671-C03T197 | 41671-3424   | A-41671-C03A197 |
| 4    | 41671-2453   | A-41671-C04P228 | 41671-2476   | A-41671-C04R208 | 41671-3402   | A-41671-C04T197 | 41671-3425   | A-41671-C04A197 |
| 5    | 41671-2454   | A-41671-C05P228 | 41671-2477   | A-41671-C05R208 | 41671-3403   | A-41671-C05T197 | 41671-3426   | A-41671-C05A197 |
| 6    | 41671-2455   | A-41671-C06P228 | 41671-2478   | A-41671-C06R208 | 41671-3404   | A-41671-C06T197 | 41671-3427   | A-41671-C06A197 |
| 7    | 41671-2456   | A-41671-C07P228 | 41671-2479   | A-41671-C07R208 | 41671-3405   | A-41671-C07T197 | 41671-3428   | A-41671-C07A197 |
| 8    | 41671-2457   | A-41671-C08P228 | 41671-2480   | A-41671-C08R208 | 41671-3406   | A-41671-C08T197 | 41671-3429   | A-41671-C08A197 |
| 9    | 41671-2458   | A-41671-C09P228 | 41671-2481   | A-41671-C09R208 | 41671-3407   | A-41671-C09T197 | 41671-3430   | A-41671-C09A197 |
| 10   | 41671-2459   | A-41671-C10P228 | 41671-2482   | A-41671-C10R208 | 41671-3408   | A-41671-C10T197 | 41671-3431   | A-41671-C10A197 |
| 11   | 41671-2460   | A-41671-C11P228 | 41671-2483   | A-41671-C11R208 | 41671-3409   | A-41671-C11T197 | 41671-3432   | A-41671-C11A197 |
| 12   | 41671-2461   | A-41671-C12P228 | 41671-2484   | A-41671-C12R208 | 41671-3410   | A-41671-C12T197 | 41671-3433   | A-41671-C12A197 |
| 13   | 41671-2462   | A-41671-C13P228 | 41671-2485   | A-41671-C13R208 | 41671-3411   | A-41671-C13T197 | 41671-3434   | A-41671-C13A197 |
| 14   | 41671-2463   | A-41671-C14P228 | 41671-2486   | A-41671-C14R208 | 41671-3412   | A-41671-C14T197 | 41671-3435   | A-41671-C14A197 |
| 15   | 41671-2464   | A-41671-C15P228 | 41671-2487   | A-41671-C15R208 | 41671-3413   | A-41671-C15T197 | 41671-3436   | A-41671-C15A197 |
| 16   | 41671-2465   | A-41671-C16P228 | 41671-2488   | A-41671-C16R208 | 41671-3414   | A-41671-C16T197 | 41671-3437   | A-41671-C16A197 |
| 17   | 41671-2466   | A-41671-C17P228 | 41671-2489   | A-41671-C17R208 | 41671-3415   | A-41671-C17T197 | 41671-3438   | A-41671-C17A197 |
| 18   | 41671-2467   | A-41671-C18P228 | 41671-2490   | A-41671-C18R208 | 41671-3416   | A-41671-C18T197 | 41671-3439   | A-41671-C18A197 |
| 19   | 41671-2468   | A-41671-C19P228 | 41671-2491   | A-41671-C19R208 | 41671-3417   | A-41671-C19T197 | 41671-3440   | A-41671-C19A197 |
| 20   | 41671-2469   | A-41671-C20P228 | 41671-2492   | A-41671-C20R208 | 41671-3418   | A-41671-C20T197 | 41671-3441   | A-41671-C20A197 |
| 21   | 41671-2470   | A-41671-C21P228 | 41671-2493   | A-41671-C21R208 | 41671-3419   | A-41671-C21T197 | 41671-3442   | A-41671-C21A197 |
| 22   | 41671-2471   | A-41671-C22P228 | 41671-2494   | A-41671-C22R208 | 41671-3420   | A-41671-C22T197 | 41671-3443   | A-41671-C22A197 |
| 23   | 41671-2472   | A-41671-C23P228 | 41671-2495   | A-41671-C23R208 | 41671-3421   | A-41671-C23T197 | 41671-3444   | A-41671-C23A197 |
| 24   | 41671-2473   | A-41671-C24P228 | 41671-2496   | A-41671-C24R208 | 41671-3422   | A-41671-C24T197 | 41671-3445   | A-41671-C24A197 |

|                                                        |                                                                                                   |                                                                                      |                                          |                                          |                                      |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------|------------------------------------------|--------------------------------------|
| <u>REV:</u><br><br><b>AK3</b>                          | <u>ECR/ECN INFORMATION:</u><br><br>EC. NO.        UCP2013-1575<br><br>DATE:            10/25/2012 | <u>TITLE:</u><br><br>KK .156 HEADER ASSEMBLY<br>FRICTION LOCK STRAIGHT<br>2-24 CKTS. |                                          |                                          | <u>SHEET No.</u><br><br><b>- 5 -</b> |
| <u>DOCUMENT NUMBER:</u><br><br><b>SD – 41671 - 001</b> |                                                                                                   | <u>CREATED / REVISED BY:</u><br><br><b>MMSTROH</b>                                   | <u>CHECKED BY:</u><br><br><b>MKIPPER</b> | <u>APPROVED BY:</u><br><br><b>FSMITH</b> |                                      |
| TEMPLATE FILENAME: PRODUCT_SPEC [SIZE_A](V.1). DOC     |                                                                                                   |                                                                                      |                                          |                                          |                                      |

|                           |                                                                |           |
|---------------------------|----------------------------------------------------------------|-----------|
| Group No:                 | A-41671-CNA197-*                                               |           |
| Pin No:                   | <div>SAME AS<br/>GROUP NO. A-41671-CNA197<br/>ON SHEET 2</div> |           |
| Plating:                  |                                                                |           |
| Pin Length L              |                                                                |           |
| Mating M                  |                                                                |           |
| Gold Loc G                |                                                                |           |
| PC Tail P                 |                                                                |           |
| Tin Loc T                 |                                                                |           |
| Voided Ckts               | SEE CHART BELOW                                                |           |
| Pack Per                  |                                                                |           |
| Material No               | Engineer Number                                                | Void Ckts |
| 26-50-3030                | A-41671-C03A197-2                                              | 2         |
| 26-50-3040                | A-41671-C04A197-2                                              | 2         |
| 26-50-3050                | A-41671-C05A197-2                                              | 2         |
| 26-50-3060                | A-41671-C06A197-2                                              | 2         |
| 26-50-3070                | A-41671-C07A197-2                                              | 2         |
| 26-50-3080                | A-41671-C08A197-2                                              | 2         |
| 26-50-3090                | A-41671-C09A197-2                                              | 2         |
| 26-50-3100                | A-41671-C10A197-2                                              | 2         |
| 26-50-3110                | A-41671-C11A197-2                                              | 2         |
| 26-50-3120                | A-41671-C12A197-2                                              | 2         |
| 26-50-3130                | A-41671-C13A197-2                                              | 2         |
| 26-50-3140                | A-41671-C14A197-2                                              | 2         |
| 26-50-3150                | A-41671-C15A197-2                                              | 2         |
| 26-50-3160                | A-41671-C16A197-2                                              | 2         |
| 26-50-3170                | A-41671-C17A197-2                                              | 2         |
| 26-50-3180                | A-41671-C18A197-2                                              | 2         |
| 26-50-3190                | A-41671-C19A197-2                                              | 2         |
| 26-50-3200                | A-41671-C20A197-2                                              | 2         |
| 26-50-3210                | A-41671-C21A197-2                                              | 2         |
| 26-50-3220                | A-41671-C22A197-2                                              | 2         |
| 26-50-3230                | A-41671-C23A197-2                                              | 2         |
| A-41671-CNA197 WITH VOIDS |                                                                |           |

|                           |                                                                |           |
|---------------------------|----------------------------------------------------------------|-----------|
| Group No:                 | A-41671-CNA197-* CONT'D                                        |           |
| Pin No:                   | <div>SAME AS<br/>GROUP NO. A-41671-CNA197<br/>ON SHEET 2</div> |           |
| Plating:                  |                                                                |           |
| Pin Length L              |                                                                |           |
| Mating M                  |                                                                |           |
| Gold Loc G                |                                                                |           |
| PC Tail P                 |                                                                |           |
| Tin Loc T                 |                                                                |           |
| Voided Ckts               | SEE CHART BELOW                                                |           |
| Pack Per                  |                                                                |           |
| Material No               | Engineer Number                                                | Void Ckts |
| 26-50-3073                | A-41671-C07A197-3                                              | 3         |
| 26-50-5080                | A-41671-C08A197-51                                             | 2,4       |
| 26-50-3063                | A-41671-C06A197-3                                              | 3         |
| 26-50-3071                | A-41671-C07A197-52                                             | 2,4,6     |
| 26-50-3051                | A-41671-C05A197-51                                             | 2,4       |
| 26-50-3062                | A-41671-C06A197-4                                              | 4         |
| 26-50-3068                | A-41671-C06A197-6                                              | 6         |
| 26-50-3111                | A-41671-C11A197-51                                             | 5,10      |
| 26-50-3065                | A-41671-C06A197-5                                              | 5         |
| 26-50-3054                | A-41671-C05A197-4                                              | 4         |
| 26-50-3154                | A-41671-C15A197-4                                              | 4         |
| 26-50-3145                | A-41671-C14A197-55                                             | 2,4,8,12  |
| 26-50-3155                | A-41671-C15A197-54                                             | 3,10,13   |
| 26-50-3066                | A-41671-C6A197-54                                              | 2,4       |
| 26-50-3108                | A-41671-C10A197-53                                             | 3,10      |
| 26-50-3103                | A-41671-C10A197-7                                              | 7         |
| 26-50-3087                | A-41671-C8A197-52                                              | 5,7       |
| 26-50-5081                | A-41671-C08A197-6                                              | 6         |
| 26-50-3132                | A-41671-C13A197-5                                              | 5         |
| 26-50-3165                | A-41671-C16A197-52                                             | 2,15      |
| 41671-0085                | A-41671-C10A197-56                                             | 5,8       |
| A-41671-CNA197 WITH VOIDS |                                                                |           |

|                           |                                                                |                        |
|---------------------------|----------------------------------------------------------------|------------------------|
| Group No:                 | A-41671-CNA197-* CONT'D                                        |                        |
| Pin No:                   | <div>SAME AS<br/>GROUP NO. A-41671-CNA197<br/>ON SHEET 2</div> |                        |
| Plating:                  |                                                                |                        |
| Pin Length L              |                                                                |                        |
| Mating M                  |                                                                |                        |
| Gold Loc G                |                                                                |                        |
| PC Tail P                 |                                                                |                        |
| Tin Loc T                 |                                                                |                        |
| Voided Ckts               | SEE CHART BELOW                                                |                        |
| Pack Per                  |                                                                |                        |
| Material No               | Engineer Number                                                | Void Ckts              |
| 26-50-3202                | A-41671-C20A197-51                                             | 2,4,6,8<br>10,12,14,16 |
| 26-50-3167                | A-41671-C16A197-53                                             | 2,4,6,8                |
| 26-50-3152                | A-41671-C15A197-52                                             | 4,6,8,10,12,14         |
| 26-50-3126                | A-41671-C12A197-53                                             | 2,3,5,6,8,10           |
| 26-50-3240                | A-41671-C24A197-2                                              | 2                      |
| 26-50-5090                | A-41671-C10A197-55                                             | 2,5                    |
| 41671-3100                | A-41671-C05A197-3                                              | 3                      |
| 41671-3112                | A-41671-C14A197-12                                             | 12                     |
| 41671-3113                | A-41671-C14A197-51                                             | 11, 12                 |
| 41671-3446                | A-41671-C06A197-55                                             | 1, 3, 5                |
| 41671-3470                | A-41671-C16A197-15                                             | 15                     |
| 41671-3471                | A-41671-C18A197-16                                             | 16                     |
|                           |                                                                |                        |
|                           |                                                                |                        |
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|                           |                                                                |                        |
|                           |                                                                |                        |
|                           |                                                                |                        |
|                           |                                                                |                        |
|                           |                                                                |                        |
|                           |                                                                |                        |
| A-41671-CNA197 WITH VOIDS |                                                                |                        |

|                         |                       |                                                                 |               |
|-------------------------|-----------------------|-----------------------------------------------------------------|---------------|
| REV:                    | ECR/ECN INFORMATION:  | TITLE:                                                          | SHEET No.     |
| <b>AK3</b>              | EC. NO. UCP2013-1575  | KK .156 HEADER ASSEMBLY<br>FRICTION LOCK STRAIGHT<br>2-24 CKTS. | <b>- 6 -</b>  |
|                         | DATE: 10/25/2012      |                                                                 |               |
| DOCUMENT NUMBER:        | CREATED / REVISED BY: | CHECKED BY:                                                     | APPROVED BY:  |
| <b>SD – 41671 - 001</b> | <b>MMSTROH</b>        | <b>MKIPPER</b>                                                  | <b>FSMITH</b> |

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



