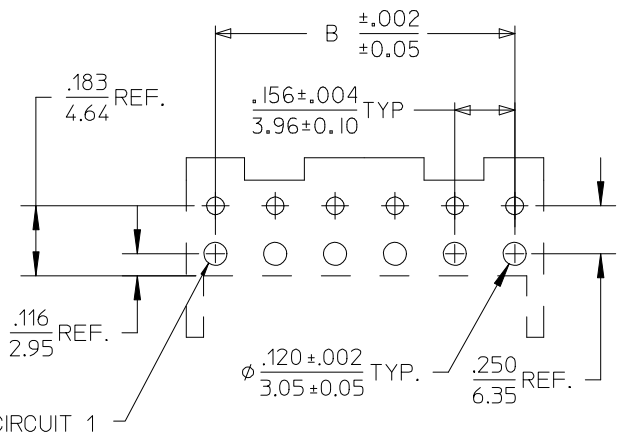


- NOTES:
- HOUSING MATERIAL: NYLON, UL 94V-2
  - FINISH:
    - (909) = OVERALL HOT TIN DIP: .000100/0.00254 MIN.
    - (197) = OVERALL REFLOWED MATTE TIN: 0.00152/.000060 MIN. OVER 0.00127/.000050 MIN. NICKEL OVERALL.
    - (208) = SELECT GOLD: .000015/0.00038 MIN. SELECT TIN: .000100/0.00254 MIN. OVERALL NICKEL UNDERPLATE: .000050/0.00127 MIN.
  - PRODUCT SPECIFICATION: PS-08-50
  - PACKAGING INFO: SEE CHARTS
  - SOLDERABILITY SPECIFICATION: SMES-152
  - RIGHT ANGLE OPTIONS SEE DRAWING SDA-2145-001
  - BOTTOM ENTRY OPTIONS SEE DRAWING SDA-2145-003
  - .183/4.64 DIMENSION IS BOTTOM OF HOUSING TO CENTER OF MATING PIN AND DOES NOT REFLECT CENTER OF CONNECTOR HOUSING WINDOW DIMENSION.
  - THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.
  - DIMENSION "C" MEASURED WITH TERMINAL PUSHED IN AGAINST THE STOP.

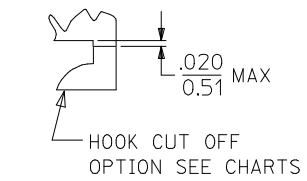
| CKT | A              | B                        | CENTER HOOK(S)<br>LOCATED BETWEEN<br>CIRCUITS |
|-----|----------------|--------------------------|---|
| 02  | .308<br>7.82   | .156±.005<br>3.96±0.13   | NONE  |
| 03  | .464<br>11.79  | .312±.005<br>7.92±0.13   | NONE  |
| 04  | .620<br>15.75  | .468±.005<br>11.89±0.13  | NONE  |
| 05  | .776<br>19.71  | .624±.005<br>15.85±0.13  | NONE  |
| 06  | .932<br>23.67  | .780±.005<br>19.81±0.13  | NONE  |
| 07  | 1.088<br>27.64 | .936±.010<br>23.77±0.25  | NONE  |
| 08  | 1.244<br>31.60 | 1.092±.010<br>27.74±0.25 | 4 & 5   |
| 09  | 1.400<br>35.56 | 1.248±.010<br>31.70±0.25 | 4 & 5   |
| 10  | 1.556<br>39.52 | 1.404±.010<br>35.66±0.25 | 5 & 6   |
| 11  | 1.712<br>43.48 | 1.560±.010<br>39.62±0.25 | 5 & 6   |
| 12  | 1.868<br>47.45 | 1.716±.010<br>43.59±0.25 | 4 & 5,<br>8 & 9                               |
| 13  | 2.024<br>51.41 | 1.872±.010<br>47.55±0.25 | 6 & 7,<br>11 & 12                             |
| 14  | 2.180<br>55.37 | 2.028±.014<br>51.51±0.36 | 5 & 6,<br>9 & 10                              |
| 15  | 2.336<br>59.33 | 2.184±.014<br>55.47±0.36 | 5 & 6,<br>10 & 11                             |



PCB LAYOUT: COMPONENT SIDE  
RECOMMENDED PCB THICKNESS: .062/1.57

|      |      |
|------|------|
| 2-4  | AA   |
| 1    | AA   |
| SHT. | REV. |

|  |                            |  |             |                                 |  |            |   |                        |  |  |
|--|----------------------------|--|-------------|---------------------------------|--|------------|---|------------------------|--|--|
| <b>DIM "C" TOLERANCE</b><br>EC NO: UCP2016-2492<br>DRWN:GES 2015/12/17<br>CHKD:MKLIPPER 2016/01/27<br>APPR:FSMITH 2016/08/25 | <b>QUALITY SYMBOLS</b><br> | <b>GENERAL TOLERANCES (UNLESS SPECIFIED)</b> |             | <b>DIMENSION STYLE</b><br>IN/MM |  | SCALE      | DESIGN UNITS<br>INCH  | THIRD ANGLE PROJECTION |  |  |
|  |                            |  | mm          | INCH                            | DRAWN BY   | DATE       | TITLE<br><b>KK 156 HOUSING ASSY<br/>PC TAIL<br/>TOP ENTRY</b> |                        |  |  |
|  |                            | 4 PLACES                                     | ± ---       | ± ---                           | SAMIEC   | 2003/01/16 |   |                        |  |  |
|  |                            | 3 PLACES                                     | ± ---       | ± .010                          | CHECKED BY   | DATE       | <b>molex</b>  |                        |  |  |
| 2 PLACES   | ± 0.25                     | ± .014                                       | SAMIEC      | 2003/01/16                      |  |            |   |                        |  |  |
| 1 PLACE  | ± 0.36                     | ± ---  | APPROVED BY | DATE                            | MATERIAL NO.<br><b>SEE CHART</b>                     |            | DOCUMENT NO.<br><b>SDA-2145-002</b>                           | SHEET NO.<br>1 OF 4    |  |  |
| 0 PLACE  | ± ---                      | ± ---  | FSMITH      | 2016/08/25                      | DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |            |   |                        |  |  |





# KK 156 PCB ASSY 2-15 CKT

## 2145 TOP ENTRY SERIES

| OPTIONS | RAMPS        | YES                 | RAMPS        | YES                 |
|---------|--------------|---------------------|--------------|---------------------|
|         | HOOKS CUT:   | NO                  | HOOKS CUT:   | NO                  |
|         | COLOR:       | WHITE               | COLOR:       | WHITE               |
|         | MOLD VOID:   | NONE                | MOLD VOID:   | NONE                |
|         | TERM MATL:   | PHOS BRONZE         | TERM MATL:   | PHOS BRONZE         |
|         | CONTACT:     | STANDARD            | CONTACT:     | STANDARD            |
|         | PC TAIL (C): | .120 / 3.05         | PC TAIL (C): | .120 / 3.05         |
|         | PLT CODE:    | 197 – TIN           | PLT CODE:    | 208 – 15 GOLD       |
|         | TERM VOID:   | NONE                | TERM VOID:   | NONE                |
|         | PACKAGING:   | TRAY<br>PK-2145-001 | PACKAGING:   | TRAY<br>PK-2145-001 |
| Ckt     | Material No  | Material No         |              |                     |
| 2       | 09-62-6025   | 09-62-4029          |              |                     |
| 3       | 09-62-6035   | 09-62-4039          |              |                     |
| 4       | 09-62-6045   | 09-62-4049          |              |                     |
| 5       | 09-62-6055   | 09-62-4059          |              |                     |
| 6       | 09-62-6065   | 09-62-4069          |              |                     |
| 7       | 09-62-6075   | 09-62-4079          |              |                     |
| 8       | 09-62-6085   | 09-62-4089          |              |                     |
| 9       | 09-62-6095   | 09-62-4099          |              |                     |
| 10      | 09-62-6105   | 09-62-4109          |              |                     |
| 11      | 09-62-6115   | 09-62-4119          |              |                     |
| 12      | 09-62-6125   | 09-62-4129          |              |                     |
| 13      | 09-62-6135   | 09-62-4139          |              |                     |
| 14      | 09-62-6145   | 09-62-4149          |              |                     |
| 15      | 09-62-6155   | 09-62-4159          |              |                     |

|  |  |   |                                      |
|--|--|---|--------------------------------------|
| <b>REV:</b><br><br><b>AA</b>                   | <b>CLARIFY HOOKS</b><br>ECM 107740<br>08/22/2016 | <b>TITLE:</b><br><br><b>KK 156 PCB ASSY</b><br><b>2145 TOP ENTRY SERIES</b> | <b>SHEET No.</b><br><br><b>- 2 -</b> |
| <b>DOCUMENT NUMBER:</b><br><b>SDA-2145-002</b> | <b>CREATED / REVISED BY:</b><br><b>MKIPPER</b>   | <b>CHECKED BY:</b><br><b>JBELL</b>  | <b>APPROVED BY:</b><br><b>FSMITH</b> |



# KK 156 PCB ASSY 2-15 CKT

## 2145 TOP ENTRY SERIES

| OPTIONS | RAMPS        | YES                 | RAMPS        | YES                 | RAMPS        | YES                 | RAMPS        | YES                 |
|---------|--------------|---------------------|--------------|---------------------|--------------|---------------------|--------------|---------------------|
|         | HOOKS CUT:   | NO                  | HOOKS CUT:   | NO                  | HOOKS CUT:   | YES                 | HOOKS CUT:   | NO                  |
|         | COLOR:       | WHITE               | COLOR:       | WHITE               | COLOR:       | WHITE               | COLOR:       | WHITE               |
|         | MOLD VOID:   | NONE                | MOLD VOID:   | NONE                | MOLD VOID:   | NONE                | MOLD VOID:   | NONE                |
|         | TERM MATL:   | BRASS               | TERM MATL:   | BRASS               | TERM MATL:   | BRASS               | TERM MATL:   | BRASS               |
|         | CONTACT:     | STANDARD            | CONTACT:     | STANDARD            | CONTACT:     | STANDARD            | CONTACT:     | STANDARD            |
|         | PC TAIL (C): | .120 / 3.05         | PC TAIL (C): | .189 / 4.80         | PC TAIL (C): | .120 / 3.05         | PC TAIL (C): | .120 / 3.05         |
|         | PLT CODE:    | 197 – TIN           | PLT CODE:    | P909 – TIN          | PLT CODE:    | P909 – TIN          | PLT CODE:    | P909 – TIN          |
|         | TERM VOID:   | NONE                | TERM VOID:   | NONE                | TERM VOID:   | NONE                | TERM VOID:   | NONE                |
|         | PACKAGING:   | TRAY<br>PK-2145-001 | PACKAGING:   | TRAY<br>PK-2145-001 | PACKAGING:   | TRAY<br>PK-2145-001 | PACKAGING:   | TRAY<br>PK-2145-001 |
| Ckt     | Material No  |                     | Material No  |                     | Material No  |                     | Material No  |                     |
| 2       | 09-52-1023   |                     | 09-52-1029   |                     |              |                     | 09-52-3023   |                     |
| 3       | 09-52-1033   |                     | 09-52-1039   |                     | 09-52-3034   |                     | 09-52-3033   |                     |
| 4       | 09-52-1043   |                     | 09-52-1049   |                     | 09-52-3044   |                     | 09-52-3043   |                     |
| 5       | 09-52-1053   |                     | 09-52-1059   |                     | 09-52-3054   |                     | 09-52-3053   |                     |
| 6       | 09-52-1063   |                     | 09-52-1069   |                     | 09-52-3064   |                     | 09-52-3063   |                     |
| 7       | 09-52-1073   |                     | 09-52-1079   |                     |              |                     | 09-52-3073   |                     |
| 8       | 09-52-1083   |                     | 09-52-1089   |                     | 09-52-3089   |                     | 09-52-3083   |                     |
| 9       | 09-52-1093   |                     | 09-52-1099   |                     | 09-52-3094   |                     | 09-52-3093   |                     |
| 10      | 09-52-1103   |                     | 09-52-1109   |                     |              |                     | 09-52-3103   |                     |
| 11      | 09-52-1113   |                     | 09-52-1119   |                     |              |                     | 09-52-3113   |                     |
| 12      | 09-52-1123   |                     | 09-52-1129   |                     |              |                     | 09-52-3123   |                     |
| 13      | 09-52-1133   |                     | 09-52-1139   |                     |              |                     | 09-52-3133   |                     |
| 14      | 09-52-1143   |                     | 09-52-1149   |                     |              |                     | 09-52-3143   |                     |
| 15      | 09-52-1153   |                     | 09-52-1159   |                     |              |                     | 09-52-3153   |                     |

|                         |  |                              |  |                                  |              |                     |               |
|-------------------------|--|------------------------------|--|----------------------------------|--------------|---------------------|---------------|
| <b>REV:</b>             | <b>CLARIFY HOOKS</b><br>ECM 107740<br>08/22/2016 | <b>TITLE:</b>                | <b>KK 156 PCB ASSY</b><br><b>2145 TOP ENTRY SERIES</b> | <u>SHEET No.</u><br><b>- 3 -</b> |              |                     |               |
| <b>AA</b>               |  |                              |  |                                  |              |                     |               |
| <u>DOCUMENT NUMBER:</u> | <b>SDA-2145-002</b>                              | <u>CREATED / REVISED BY:</u> | <b>MKIPPER</b>   | <u>CHECKED BY:</u>               | <b>JBELL</b> | <u>APPROVED BY:</u> | <b>FSMITH</b> |



# KK 156 PCB ASSY 2-15 CKT

## 2145 TOP ENTRY SERIES

| OPTIONS | RAMPS        | NO                  | RAMPS        | YES                 | RAMPS        | YES                 |  |  |
|---------|--------------|---------------------|--------------|---------------------|--------------|---------------------|--|--|
|         | HOOKS CUT:   | YES                 | HOOKS CUT:   | NO                  | HOOKS CUT:   | NO                  |  |  |
|         | COLOR:       | WHITE               | COLOR:       | WHITE               | COLOR:       | WHITE               |  |  |
|         | MOLD VOID:   | NONE                | MOLD VOID:   | NONE                | MOLD VOID:   | NONE                |  |  |
|         | TERM MATL:   | BRASS               | TERM MATL:   | BRASS               | TERM MATL:   | PHOS BRONZE         |  |  |
|         | CONTACT:     | STANDARD            | CONTACT:     | STANDARD            | CONTACT:     | STANDARD            |  |  |
|         | PC TAIL (C): | .120 / 3.05         | PC TAIL (C): | .120 / 3.05         | PC TAIL (C): | .120 / 3.05         |  |  |
|         | PLT CODE:    | P909 – TIN          | PLT CODE:    | 208 – 15 GOLD       | PLT CODE:    | P909 – TIN          |  |  |
|         | TERM VOID:   | NONE                | TERM VOID:   | NONE                | TERM VOID:   | NONE                |  |  |
|         | PACKAGING:   | TRAY<br>PK-2145-001 | PACKAGING:   | TRAY<br>PK-2145-001 | PACKAGING:   | TRAY<br>PK-2145-001 |  |  |
|         |              |                     |              |                     |              |                     |  |  |
| Ckt     | Material No  |                     | Material No  |                     | Material No  |                     |  |  |
| 2       | 09-52-1025   |                     | 09-62-3023   |                     | 09-52-2029   |                     |  |  |
| 3       | 09-52-1035   |                     | 09-62-3033   |                     | 09-52-2039   |                     |  |  |
| 4       | 09-52-1045   |                     | 09-62-3043   |                     | 09-52-2049   |                     |  |  |
| 5       | 09-52-1055   |                     | 09-62-3053   |                     | 09-52-2059   |                     |  |  |
| 6       | 09-52-1065   |                     | 09-62-3063   |                     | 09-52-2069   |                     |  |  |
| 7       | 09-52-1075   |                     | 09-62-3073   |                     | 09-52-2079   |                     |  |  |
| 8       | 09-52-1085   |                     | 09-62-3083   |                     | 09-52-2089   |                     |  |  |
| 9       | 09-52-1095   |                     | 09-62-3093   |                     | 09-52-2099   |                     |  |  |
| 10      | 09-52-1105   |                     | 09-62-3103   |                     | 09-52-2109   |                     |  |  |
| 11      | 09-52-1115   |                     | 09-62-3113   |                     | 09-52-2119   |                     |  |  |
| 12      | 09-52-1125   |                     | 09-62-3123   |                     | 09-52-2129   |                     |  |  |
| 13      | 09-52-1135   |                     | 09-62-3133   |                     | 09-52-2139   |                     |  |  |
| 14      | 09-52-1145   |                     | 09-62-3143   |                     | 09-52-2149   |                     |  |  |
| 15      | 09-52-1155   |                     | 09-62-3153   |                     | 09-52-2159   |                     |  |  |

|                         |  |                              |  |                                  |              |                     |               |
|-------------------------|--|------------------------------|--|----------------------------------|--------------|---------------------|---------------|
| <b>REV:</b>             | <b>CLARIFY HOOKS</b><br>ECM 107740<br>08/22/2016 | <b>TITLE:</b>                | <b>KK 156 PCB ASSY</b><br><b>2145 TOP ENTRY SERIES</b> | <u>SHEET No.</u><br><b>- 4 -</b> |              |                     |               |
| <b>AA</b>               |  |                              |  |                                  |              |                     |               |
| <u>DOCUMENT NUMBER:</u> | <b>SDA-2145-002</b>                              | <u>CREATED / REVISED BY:</u> | <b>MKIPPER</b>   | <u>CHECKED BY:</u>               | <b>JBELL</b> | <u>APPROVED BY:</u> | <b>FSMITH</b> |