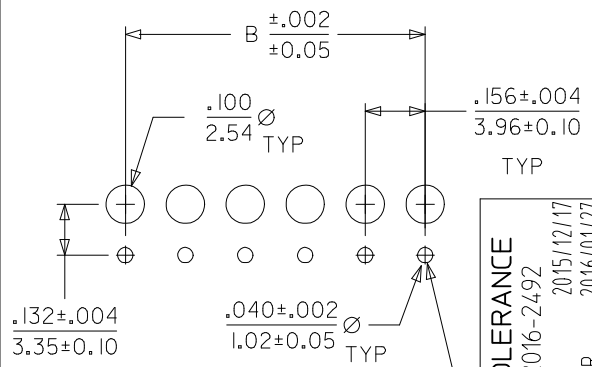


- NOTES:
- HOUSING MATERIAL: NYLON, UL 94V-2
  - FINISH:
    - (909) = OVERALL HOT TIN DIP: .000100/0.00254 MIN.
    - (197) OVERALL REFLOWED MATTE TIN: 0.00152/.000060 MIN. OVER 0.00127/.000050 MIN. NICKEL OVERALL.
    - (154) = OVERALL TIN: .000100/0.00254 MIN. OVERALL NICKEL UNDERPLATE: .000050/0.00127 MIN.
    - (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 INFORMATION: SEE CHARTS.
  - SOLDERABILITY SPECIFICATION: SMES-152
  - RIGHT ANGLE OPTIONS: SEE DRAWING SDA-2145-001.
  - TOP ENTRY OPTIONS: SEE DRAWING SDA-2145-002.
  - .132/3.35 DIMENSION IS CENTER OF TERMINAL TO CENTER OF MATING PIN AND DOES NOT REFLECT CENTER OF THE 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

|                   |                     |            |
|-------------------|---------------------|------------|
| DIM "C" TOLERANCE | EC NO: UCP2016-2492 | 2015/12/17 |
|                   | DRWN:IGES           | 2016/01/27 |
|                   | CHKD:MKIPPER        | 2016/08/25 |
|                   | APPR:FSMITH         |            |
| REV               | DESCRIPTION         |            |
| AA                |                     |            |

| QUALITY SYMBOLS | DESCRIPTION |
|-----------------|-------------|
| ▽ = 0           |             |
| ▽ = 0           |             |
| ▽ = 0           |             |

| GENERAL TOLERANCES (UNLESS SPECIFIED)                |               |
|------------------------------------------------------|---------------|
|                                                      | mm INCH       |
| 4 PLACES                                             | ± --- ± ---   |
| 3 PLACES                                             | ± --- ± .010  |
| 2 PLACES                                             | ± 0.25 ± .014 |
| 1 PLACE                                              | ± 0.36 ± ---  |
| 0 PLACE                                              | ± --- ± ---   |
| ANGULAR ±1/2°                                        |               |
| DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS |               |

| DIMENSION STYLE |            |
|-----------------|------------|
| IN/MM           |            |
| DRAWN BY        | DATE       |
| SAMIEC          | 01/16/03   |
| CHECKED BY      | DATE       |
| SAMIEC          | 01/16/03   |
| APPROVED BY     | DATE       |
| FSMITH          | 2016/08/25 |
| MATERIAL NO.    |            |
| SEE CHART       |            |
| SIZE            |            |
| A               |            |

|                                                                                                                               |              |                        |
|-------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------|
| SCALE                                                                                                                         | DESIGN UNITS | THIRD ANGLE PROJECTION |
|                                                                                                                               | INCH         |                        |
| TITLE                                                                                                                         |              |                        |
| KK 156 HOUSING ASSY<br>PC TAIL<br>BOTTOM ENTRY                                                                                |              |                        |
| <b>molex</b>                                                                                                                  |              |                        |
| DOCUMENT NO.                                                                                                                  | SHEET NO.    |                        |
| SDA-2145-003                                                                                                                  | 1 OF 4       |                        |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |              |                        |



# KK 156 PCB ASSY 2-15 CKT

## 2145 BOTTOM ENTRY SERIES

| OPTIONS | RAMPS        | YES                 | RAMPS        | YES                 |
|---------|--------------|---------------------|--------------|---------------------|
|         | 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): | .160 / 4.06         | PC TAIL (C): | .160 / 4.06         |
|         | 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       | 09-62-6024   | 09-62-4028          |              |                     |
| 3       | 09-62-6034   | 09-62-4038          |              |                     |
| 4       | 09-62-6044   | 09-62-4048          |              |                     |
| 5       | 09-62-6054   | 09-62-4058          |              |                     |
| 6       | 09-62-6064   | 09-62-4068          |              |                     |
| 7       | 09-62-6074   | 09-62-4078          |              |                     |
| 8       | 09-62-6084   | 09-62-4088          |              |                     |
| 9       | 09-62-6094   | 09-62-4098          |              |                     |
| 10      | 09-62-6104   | 09-62-4108          |              |                     |
| 11      | 09-62-6114   | 09-62-4118          |              |                     |
| 12      | 09-62-6124   | 09-62-4128          |              |                     |
| 13      | 09-62-6134   | 09-62-4138          |              |                     |
| 14      | 09-62-6144   | 09-62-4148          |              |                     |
| 15      | 09-62-6154   | 09-62-4158          |              |                     |

|                         |                                                         |                                                           |                     |
|-------------------------|---------------------------------------------------------|-----------------------------------------------------------|---------------------|
| <b>REV:</b>             | <b>CLARIFY HOOKS</b><br>ECM 107740<br>8/22/2016 MKIPPER | <b>TITLE:</b>                                             | <b>SHEET No.</b>    |
| <b>AA</b>               |                                                         | <b>KK 156 PCB ASSY</b><br><b>2145 BOTTOM ENTRY SERIES</b> | <b>- 2 -</b>        |
| <b>DOCUMENT NUMBER:</b> | <b>CREATED / REVISED BY:</b>                            | <b>CHECKED BY:</b>                                        | <b>APPROVED BY:</b> |
| <b>SDA-2145-003</b>     | <b>MKIPPER</b>                                          | <b>JBELL</b>                                              | <b>FSMITH</b>       |



# KK 156 PCB ASSY 2-15 CKT

## 2145 BOTTOM ENTRY SERIES

| OPTIONS | RAMPS        | YES                 | RAMPS        | YES                 | RAMPS        | YES                 | RAMPS        | YES                 |
|---------|--------------|---------------------|--------------|---------------------|--------------|---------------------|--------------|---------------------|
|         | COLOR:       | WHITE               | COLOR:       | WHITE               | COLOR:       | WHITE               | COLOR:       | WHITE               |
|         | MOLD VOID:   | NONE                | MOLD VOID:   | NONE                | MOLD VOID:   | NONE                | MOLD VOID:   | NONE                |
|         | TERM MATL:   | PHOS BRONZE         | TERM MATL:   | BRASS               | TERM MATL:   | BRASS               | TERM MATL:   | BRASS               |
|         | CONTACT:     | STANDARD            | CONTACT:     | STANDARD            | CONTACT:     | STANDARD            | CONTACT:     | STANDARD            |
|         | PC TAIL (C): | .160 / 4.06         | PC TAIL (C): | .160 / 4.06         | PC TAIL (C): | .160 / 4.06         | PC TAIL (C): | .126 / 3.20         |
|         | PLT CODE:    | P909 – TIN          | PLT CODE:    | P909 – TIN          | PLT CODE:    | 208 – 15 GOLD       | 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         | Material No  | Material No         | Material No  |                     |
| 2       | 09-52-2028   | 09-52-3022          | 09-62-3022   | 09-52-5022          |              |                     |              |                     |
| 3       | 09-52-2038   | 09-52-3032          | 09-62-3032   | 09-52-5032          |              |                     |              |                     |
| 4       | 09-52-2048   | 09-52-3042          | 09-62-3042   | 09-52-5042          |              |                     |              |                     |
| 5       | 09-52-2058   | 09-52-3052          | 09-62-3052   | 09-52-5052          |              |                     |              |                     |
| 6       | 09-52-2068   | 09-52-3062          | 09-62-3062   | 09-52-5062          |              |                     |              |                     |
| 7       | 09-52-2078   | 09-52-3072          | 09-62-3072   | 09-52-5072          |              |                     |              |                     |
| 8       | 09-52-2088   | 09-52-3082          | 09-62-3082   | 09-52-5082          |              |                     |              |                     |
| 9       | 09-52-2098   | 09-52-3092          | 09-62-3092   | 09-52-5092          |              |                     |              |                     |
| 10      | 09-52-2108   | 09-52-3102          | 09-62-3102   | 09-52-5102          |              |                     |              |                     |
| 11      | 09-52-2118   | 09-52-3112          | 09-62-3112   | 09-52-5112          |              |                     |              |                     |
| 12      | 09-52-2128   | 09-52-3122          | 09-62-3122   | 09-52-5122          |              |                     |              |                     |
| 13      | 09-52-2138   | 09-52-3132          | 09-62-3132   | 09-52-5132          |              |                     |              |                     |
| 14      | 09-52-2148   | 09-52-3142          | 09-62-3142   | 09-52-5142          |              |                     |              |                     |
| 15      | 09-52-2158   | 09-52-3152          | 09-62-3152   | 09-52-5152          |              |                     |              |                     |

|                         |                                                         |                    |                                                           |                                  |
|-------------------------|---------------------------------------------------------|--------------------|-----------------------------------------------------------|----------------------------------|
| <b>REV:</b>             | <b>CLARIFY HOOKS</b><br>ECM 107740<br>8/22/2016 MKIPPER | <b>TITLE:</b>      | <b>KK 156 PCB ASSY</b><br><b>2145 BOTTOM ENTRY SERIES</b> | <u>SHEET No.</u><br><b>- 3 -</b> |
| <b>AA</b>               |                                                         |                    |                                                           |                                  |
| <b>DOCUMENT NUMBER:</b> | <b>CREATED / REVISED BY:</b>                            | <b>CHECKED BY:</b> | <b>APPROVED BY:</b>                                       |                                  |
| <b>SDA-2145-003</b>     | <b>MKIPPER</b>                                          | <b>JBELL</b>       | <b>FSMITH</b>                                             |                                  |



# KK 156 PCB ASSY 2-15 CKT

## 2145 BOTTOM ENTRY SERIES

| OPTIONS | RAMPS        | YES                 | RAMPS        |  | RAMPS        |  | RAMPS        |  |
|---------|--------------|---------------------|--------------|--|--------------|--|--------------|--|
|         | COLOR:       | WHITE               | COLOR:       |  | COLOR:       |  | COLOR:       |  |
|         | MOLD VOID:   | NONE                | MOLD VOID:   |  | MOLD VOID:   |  | MOLD VOID:   |  |
|         | TERM MATL:   | PHOS BRONZE         | TERM MATL:   |  | TERM MATL:   |  | TERM MATL:   |  |
|         | CONTACT:     | STANDARD            | CONTACT:     |  | CONTACT:     |  | CONTACT:     |  |
|         | PC TAIL (C): | .160 / 4.06         | PC TAIL (C): |  | PC TAIL (C): |  | PC TAIL (C): |  |
|         | PLT CODE:    | P154 - TIN          | PLT CODE:    |  | PLT CODE:    |  | PLT CODE:    |  |
|         | TERM VOID:   | NONE                | TERM VOID:   |  | TERM VOID:   |  | TERM VOID:   |  |
|         | PACKAGING:   | TRAY<br>PK-2145-001 | PACKAGING:   |  | PACKAGING:   |  | PACKAGING:   |  |
| Ckt     | Material No  |                     | Material No  |  | Material No  |  | Material No  |  |
| 2       | 50-30-4405   |                     |              |  |              |  |              |  |
| 3       | 50-30-4406   |                     |              |  |              |  |              |  |
| 4       | 50-30-4407   |                     |              |  |              |  |              |  |
| 5       | 50-30-4408   |                     |              |  |              |  |              |  |
| 6       | 50-30-4409   |                     |              |  |              |  |              |  |
| 7       | 50-30-4411   |                     |              |  |              |  |              |  |
| 8       | 50-30-4412   |                     |              |  |              |  |              |  |
| 9       | 50-30-4413   |                     |              |  |              |  |              |  |
| 10      | 50-30-4414   |                     |              |  |              |  |              |  |
| 11      | 50-30-4415   |                     |              |  |              |  |              |  |
| 12      | 50-30-4416   |                     |              |  |              |  |              |  |
| 13      | 50-30-4417   |                     |              |  |              |  |              |  |
| 14      | 50-30-4418   |                     |              |  |              |  |              |  |
| 15      | 50-30-4419   |                     |              |  |              |  |              |  |

|                                                |                                                         |                                                                                |                                      |
|------------------------------------------------|---------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------|
| <b>REV:</b><br><br><b>AA</b>                   | <b>CLARIFY HOOKS</b><br>ECM 107740<br>8/22/2016 MKIPPER | <b>TITLE:</b><br><br><b>KK 156 PCB ASSY</b><br><b>2145 BOTTOM ENTRY SERIES</b> | <b>SHEET No.</b><br><br><b>- 4 -</b> |
| <b>DOCUMENT NUMBER:</b><br><b>SDA-2145-003</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> |