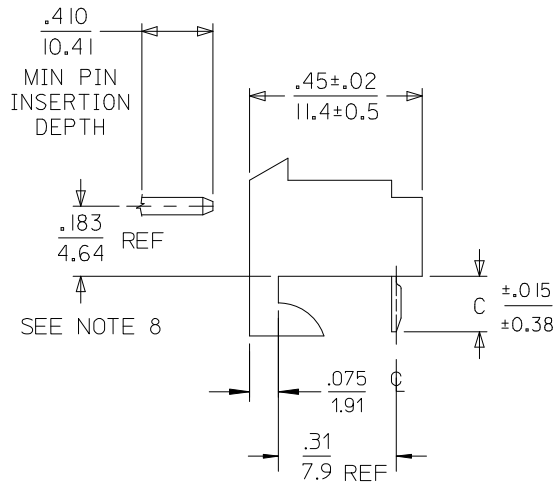
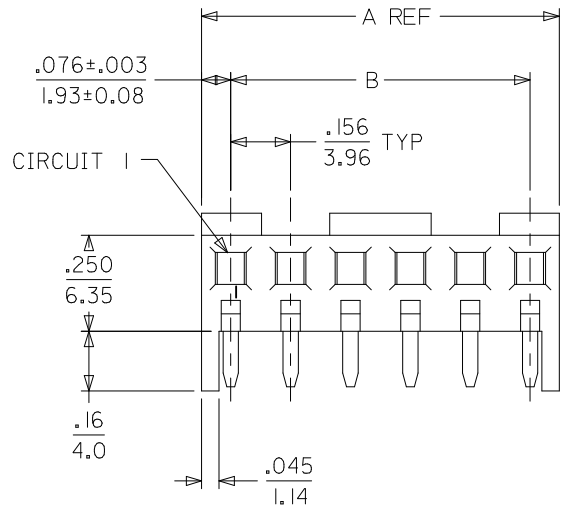
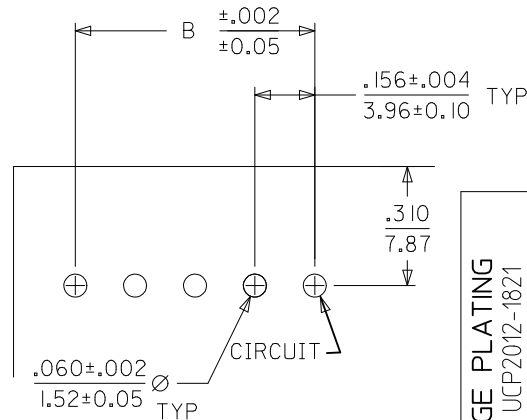




NOTES:

1. HOUSING MATERIAL: NYLON, UL 94V-2
2. FINISH:
  - (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.
  - (909) OVERALL HOT TIN DIP: .000100/0.00254 MIN.
3. PRODUCT SPECIFICATION: PS-08-50
4. PACKAGING INFO: SEE CHARTS.
5. SOLDERABILITY SPECIFICATION: SMES-152.
6. TOP ENTRY OPTIONS: SEE DRAWING SDA-2145-002.
7. BOTTOM ENTRY OPTIONS: SEE DRAWING SDA-2145-003
8. .183/4.64 DIMENSION IS BOTTOM OF HOUSING TO CENTER OF MATING PIN AND DOES NOT REFLECT CENTER OF THE CONNECTOR HOUSING WINDOW DIMENSION.
9. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION.



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

| CHANGE PLATING      |            | DESCRIPTION                                                                             | QUALITY SYMBOLS                                                                         |  |
|---------------------|------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--|
| EC NO: UCP2012-1821 | 2012/01/04 |                                                                                         |  = O |  |
| DRWN:MMSTROH        | 2012/01/05 |  = O |                                                                                         |  |
| CHKD:MKIPPER        | 2012/02/02 |  = O |                                                                                         |  |
| APPR:FSMITH         |            |                                                                                         |                                                                                         |  |
| AA                  | 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 |          |
|-----------------|----------|
| IN/MM           |          |
| DRAWN BY        | DATE     |
| SAMIEC          |          |
| CHECKED BY      | DATE     |
| SAMIEC          | 98/10/09 |
| APPROVED BY     | DATE     |
| MARGULIS        |          |
| MATERIAL NO.    |          |
| SEE CHART       |          |
| SIZE            |          |
| A               |          |

|                                                                                                |                      |                                                                                                                 |
|------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------|
| SCALE                                                                                          | DESIGN UNITS<br>INCH |  THIRD ANGLE<br>PROJECTION |
| TITLE<br>KK 156 PCB ASSY<br>RIGHT ANGLE ENTRY                                                  |                      |                                                                                                                 |
| MOLEX INCORPORATED                                                                             |                      |                                                                                                                 |
| DOCUMENT NO.<br>SDA-2145-001                                                                   |                      | SHEET NO.<br>1 OF *                                                                                             |
| THIS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                      |                                                                                                                 |

| CKT | A              | B                        |
|-----|----------------|--------------------------|
| 02  | .308<br>7.82   | .156±.005<br>3.96±0.13   |
| 03  | .464<br>11.79  | .312±.005<br>7.92±0.13   |
| 04  | .620<br>15.75  | .468±.005<br>11.89±0.13  |
| 05  | .776<br>19.71  | .624±.005<br>15.85±0.13  |
| 06  | .932<br>23.67  | .780±.005<br>19.81±0.13  |
| 07  | 1.088<br>27.64 | .936±.010<br>23.77±0.25  |
| 08  | 1.244<br>31.60 | 1.092±.010<br>27.74±0.25 |
| 09  | 1.400<br>35.56 | 1.248±.010<br>31.70±0.25 |
| 10  | 1.556<br>39.52 | 1.404±.010<br>35.66±0.25 |
| 11  | 1.712<br>43.48 | 1.560±.010<br>39.62±0.25 |
| 12  | 1.868<br>47.45 | 1.716±.010<br>43.59±0.25 |
| 13  | 2.024<br>51.41 | 1.872±.010<br>47.55±0.25 |
| 14  | 2.180<br>55.37 | 2.028±.014<br>51.51±0.36 |
| 15  | 2.336<br>59.33 | 2.184±.014<br>55.47±0.36 |



# KK 156 PCB ASSY

## 2145 RIGHT ANGLE SERIES

### OPTIONS

|              |                     |
|--------------|---------------------|
| RAMPS        | YES                 |
| HOOKS:       | YES                 |
| COLOR:       | WHITE               |
| MOLD VOID:   | NONE                |
| TERM MATL:   | PHOS BRONZE         |
| CONTACT:     | STANDARD            |
| PC TAIL (C): | .145 / 3.68         |
| PLATING:     | 197 - TIN           |
| TERM VOID:   | NONE                |
| PACKAGING:   | TRAY<br>PK-2145-001 |

|              |                     |
|--------------|---------------------|
| RAMPS        | YES                 |
| HOOKS:       | YES                 |
| COLOR:       | WHITE               |
| MOLD VOID:   | NONE                |
| TERM MATL:   | PHOS BRONZE         |
| CONTACT:     | STANDARD            |
| PC TAIL (C): | .145 / 3.68         |
| PLATING:     | 208 - GOLD          |
| TERM VOID:   | NONE                |
| PACKAGING:   | TRAY<br>PK-2145-001 |

### Ckts

| Material No |
|-------------|
| 09-52-1026  |
| 09-52-1036  |
| 09-52-1046  |
| 09-52-1056  |
| 09-52-1066  |
| 09-52-1076  |
| 09-52-1086  |
| 09-52-1096  |
| 09-52-1106  |
| 09-52-1116  |
| 09-52-1126  |
| 09-52-1136  |
| 09-52-1146  |
| 09-52-1156  |

| Material No |
|-------------|
| 09-62-4027  |
| 09-62-4037  |
| 09-62-4047  |
| 09-62-4057  |
| 09-62-4067  |
| 09-62-4077  |
| 09-62-4087  |
| 09-62-4097  |
| 09-62-4107  |
| 09-62-4117  |
| 09-62-4127  |
| 09-62-4137  |
| 09-62-4147  |
| 09-62-4157  |

REV:

**AA**

2/2/2012

MMSTROH

TITLE:

**KK 156 PCB ASSY  
2145 RIGHT ANGLE SERIES**

SHEET No.

**- 2 -**

DOCUMENT NUMBER:

**SDA-2145-001**

CREATED / REVISED BY:

**MMSTROH**

CHECKED BY:

**MKIPPER**

APPROVED BY:

**FSMITH**



# KK 156 PCB ASSY

## 2145 RIGHT ANGLE SERIES

|         |              |                     |  |  |  |  |              |                     |
|---------|--------------|---------------------|--|--|--|--|--------------|---------------------|
| OPTIONS | RAMPS        | YES                 |  |  |  |  | RAMPS        | YES                 |
|         | HOOKS:       | YES                 |  |  |  |  | HOOKS:       | YES                 |
|         | COLOR:       | WHITE               |  |  |  |  | COLOR:       | WHITE               |
|         | MOLD VOID:   | NONE                |  |  |  |  | MOLD VOID:   | NONE                |
|         | TERM MATL:   | BRASS               |  |  |  |  | TERM MATL:   | BRASS               |
|         | CONTACT:     | STANDARD            |  |  |  |  | CONTACT:     | STANDARD            |
|         | PC TAIL (C): | .145 / 3.68         |  |  |  |  | PC TAIL (C): | .145 / 3.68         |
|         | PLT CODE:    | 197 - TIN           |  |  |  |  | PLT CODE:    | P909 - TIN          |
|         | TERM VOID:   | NONE                |  |  |  |  | TERM VOID:   | NONE                |
|         | PACKAGING:   | TRAY<br>PK-2145-001 |  |  |  |  | PACKAGING:   | TRAY<br>PK-2145-001 |
|         |              |                     |  |  |  |  |              |                     |
| Ckt     | Material No  |                     |  |  |  |  | Material No  |                     |
| 2       | 09-52-1021   |                     |  |  |  |  | 09-52-3021   |                     |
| 3       | 09-52-1031   |                     |  |  |  |  | 09-52-3031   |                     |
| 4       | 09-52-1041   |                     |  |  |  |  | 09-52-3041   |                     |
| 5       | 09-52-1051   |                     |  |  |  |  | 09-52-3051   |                     |
| 6       | 09-52-1061   |                     |  |  |  |  | 09-52-3061   |                     |
| 7       | 09-52-1071   |                     |  |  |  |  | 09-52-3071   |                     |
| 8       | 09-52-1081   |                     |  |  |  |  | 09-52-3081   |                     |
| 9       | 09-52-1091   |                     |  |  |  |  | 09-52-3091   |                     |
| 10      | 09-52-1101   |                     |  |  |  |  | 09-52-3101   |                     |
| 11      | 09-52-1111   |                     |  |  |  |  | 09-52-3111   |                     |
| 12      | 09-52-1121   |                     |  |  |  |  | 09-52-3121   |                     |
| 13      | 09-52-1131   |                     |  |  |  |  | 09-52-3131   |                     |
| 14      | 09-52-1141   |                     |  |  |  |  | 09-52-3141   |                     |
| 15      | 09-52-1151   |                     |  |  |  |  | 09-52-3151   |                     |

|                  |                     |                       |                                            |              |           |
|------------------|---------------------|-----------------------|--------------------------------------------|--------------|-----------|
| REV:             |                     | TITLE:                | KK 156 PCB ASSY<br>2145 RIGHT ANGLE SERIES |              | SHEET No. |
| AA               | 2/2/2012<br>MMSTROH |                       |                                            |              | - 3 -     |
| DOCUMENT NUMBER: |                     | CREATED / REVISED BY: | CHECKED BY:                                | APPROVED BY: |           |
| SDA-2145-001     |                     | MMSTROH               | MKIPPER                                    | FSMITH       |           |



# KK 156 PCB ASSY

## 2145 RIGHT ANGLE SERIES

|         |              |                     |              |                     |              |                     |              |                     |
|---------|--------------|---------------------|--------------|---------------------|--------------|---------------------|--------------|---------------------|
| OPTIONS | RAMPS        | YES                 | RAMPS        | YES                 | RAMPS        | NO                  | RAMPS        | YES                 |
|         | HOOKS:       | YES                 | HOOKS:       | YES                 | HOOKS:       | YES                 | HOOKS:       | YES                 |
|         | COLOR:       | BLACK               | 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:     | LOW INSERTION       |
|         | PC TAIL (C): | .145 / 3.68         | PC TAIL (C): | .145 / 3.68         | PC TAIL (C): | .145 / 3.68         | PC TAIL (C): | .145 / 3.68         |
|         | PLT CODE:    | P909 – TIN          | PLT CODE:    | 208 – 15 GOLD       | 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       | 09-53-3021   |                     | 09-62-3021   |                     |              |                     |              |                     |
| 3       | 09-53-3031   |                     | 09-62-3031   |                     |              |                     | 09-52-3035   |                     |
| 4       | 09-53-3041   |                     | 09-62-3041   |                     |              |                     | 09-52-3045   |                     |
| 5       | 09-53-3051   |                     | 09-62-3051   |                     |              |                     | 09-52-3055   |                     |
| 6       | 09-53-3061   |                     | 09-62-3061   |                     |              |                     | 09-52-3065   |                     |
| 7       | 09-53-3071   |                     | 09-62-3071   |                     |              |                     |              |                     |
| 8       | 09-53-3081   |                     | 09-62-3081   |                     |              |                     | 09-52-3085   |                     |
| 9       | 09-53-3091   |                     | 09-62-3091   |                     | 09-52-2097   |                     | 09-52-3095   |                     |
| 10      | 09-53-3101   |                     | 09-62-3101   |                     |              |                     | 09-52-3105   |                     |
| 11      | 09-53-3111   |                     | 09-62-3111   |                     |              |                     |              |                     |
| 12      | 09-53-3121   |                     | 09-62-3121   |                     |              |                     | 09-52-3125   |                     |
| 13      | 09-53-3131   |                     | 09-62-3131   |                     |              |                     |              |                     |
| 14      | 09-53-3141   |                     | 09-62-3141   |                     |              |                     |              |                     |
| 15      | 09-53-3151   |                     | 09-62-3151   |                     |              |                     | 09-52-3155   |                     |

|                  |                     |                       |                                            |              |           |
|------------------|---------------------|-----------------------|--------------------------------------------|--------------|-----------|
| REV:             |                     | TITLE:                | KK 156 PCB ASSY<br>2145 RIGHT ANGLE SERIES |              | SHEET No. |
| AA               | 2/2/2012<br>MMSTROH |                       |                                            |              | - 4 -     |
| DOCUMENT NUMBER: |                     | CREATED / REVISED BY: | CHECKED BY:                                | APPROVED BY: |           |
| SDA-2145-001     |                     | MMSTROH               | MKIPPER                                    | FSMITH       |           |



# KK 156 PCB ASSY

## 2145 RIGHT ANGLE SERIES

|  |  |  |              |                     |              |                          |              |             |
|--|--|--|--------------|---------------------|--------------|--------------------------|--------------|-------------|
|  |  |  | RAMPS        | YES                 | RAMPS        | YES                      | RAMPS        |             |
|  |  |  | HOOKS:       | YES                 | HOOKS:       | YES                      | HOOKS:       |             |
|  |  |  | COLOR:       | WHITE               | COLOR:       | WHITE                    | COLOR:       |             |
|  |  |  | MOLD VOID:   | NONE                | MOLD VOID:   | NONE                     | MOLD VOID:   |             |
|  |  |  | TERM MATL:   | PHOS BRONZE         | TERM MATL:   | PHOS BRONZE              | TERM MATL:   |             |
|  |  |  | CONTACT:     | STANDARD            | CONTACT:     | LOW FORCE                | CONTACT:     |             |
|  |  |  | PC TAIL (C): | .145 / 3.68         | PC TAIL (C): | .145 / 3.68              | PC TAIL (C): |             |
|  |  |  | PLT CODE:    | P909 – TIN          | PLT CODE:    | 197 – TIN                | PLT CODE:    |             |
|  |  |  | TERM VOID:   | NONE                | TERM VOID:   | NONE                     | TERM VOID:   |             |
|  |  |  | PACKAGING:   | TRAY<br>PK-2145-001 | PACKAGING:   | TRAY<br>PK-2145-001      | PACKAGING:   |             |
|  |  |  |              |                     |              |                          |              |             |
|  |  |  |              | Material No         |              | Material No              |              | Material No |
|  |  |  |              | 09-52-3028          |              | 50-29-0036               |              |             |
|  |  |  |              | 09-52-3038          |              | 50-29-0037<br>09-52-1030 |              |             |
|  |  |  |              | 09-52-3048          |              | 50-29-0038               |              |             |
|  |  |  |              | 09-52-3058          |              | 50-29-0039               |              |             |
|  |  |  |              | 09-52-3068          |              | 09-52-1060               |              |             |
|  |  |  |              | 09-52-3078          |              | 50-29-0040               |              |             |
|  |  |  |              | 09-52-3088          |              | 09-52-1080               |              |             |
|  |  |  |              | 09-52-3098          |              | 50-29-0041               |              |             |
|  |  |  |              | 09-52-3108          |              | 09-52-1100               |              |             |
|  |  |  |              | 09-52-3118          |              | 50-29-0042               |              |             |
|  |  |  |              | 09-52-3128          |              | 09-52-1120               |              |             |
|  |  |  |              | 09-52-3138          |              | 50-29-0043               |              |             |
|  |  |  |              | 09-52-3148          |              | 09-52-1140               |              |             |
|  |  |  |              | 09-52-3158          |              | 50-29-0044               |              |             |

|                  |                       |             |                         |           |
|------------------|-----------------------|-------------|-------------------------|-----------|
| REV:             | 2/2/2012              | TITLE:      | KK 156 PCB ASSY         | SHEET No. |
| AA               | MMSTROH               |             | 2145 RIGHT ANGLE SERIES | - 5 -     |
| DOCUMENT NUMBER: | CREATED / REVISED BY: | CHECKED BY: | APPROVED BY:            |           |
| SDA-2145-001     | MMSTROH               | MKIPPER     | FSMITH                  |           |