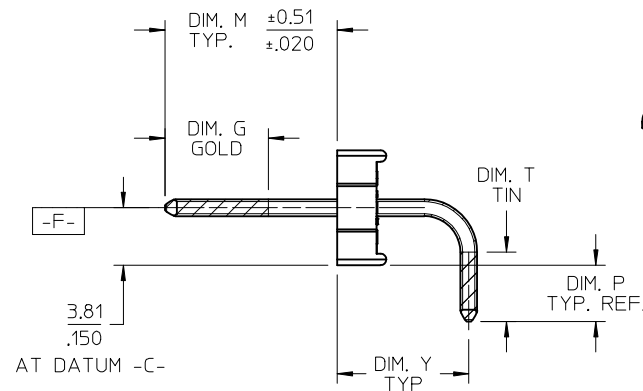
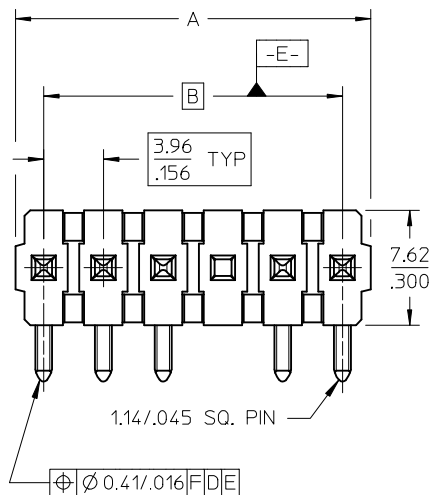
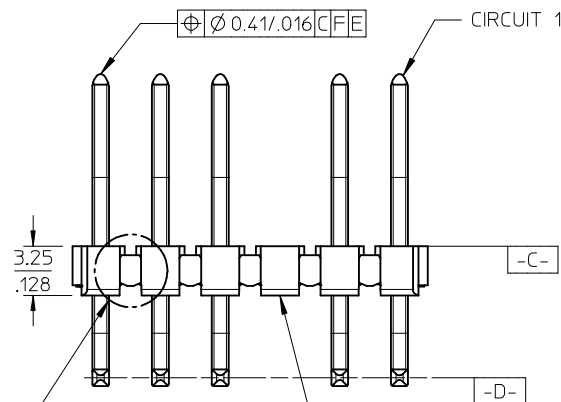


DETAIL Z



SEE DETAIL Z

OPTIONAL VOIDED CIRCUIT  
SEE CHART FOR LOCATION

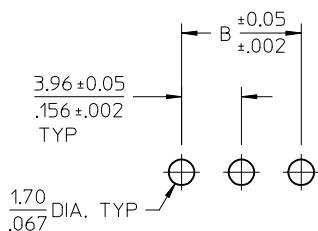
NOTES:

1. MATERIAL: GLASS FILLED POLYESTER, 94V-0, MOLDED BLACK
2. FINISH:

- (197) OVERALL REFLOWED MATTE TIN: 0.00152/.000060 MIN.  
OVER 0.00127/.000050 MIN. NICKEL OVERALL.
- (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.

3. PRODUCT SPECIFICATION: PS-08-50.
4. PACKAGING INFORMATION: SEE CHARTS
5. SOLDERABILITY: PER SMES-152.
6. PIN PUSH-OUT FORCE: PRIOR TO SOLDERING, A 3 LB. MINIMUM 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.
9. TEXT ON PART IS FOR REFERENCE ONLY. TEXT AND TEXT LOCATION MAY VARY DEPENDING ON PART NUMBER AND/OR TOOL.

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



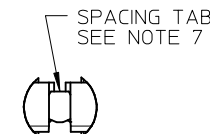
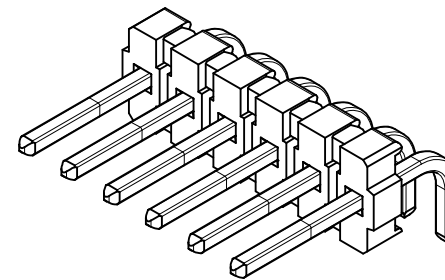
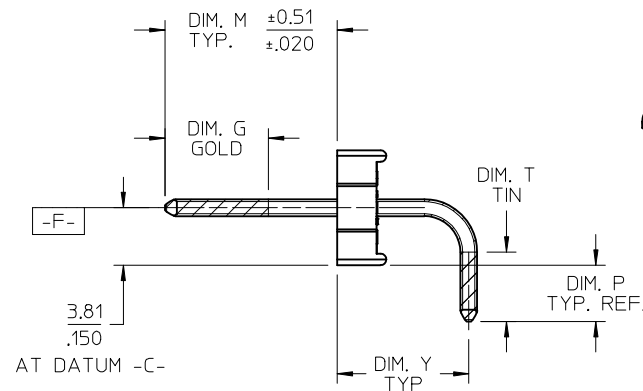
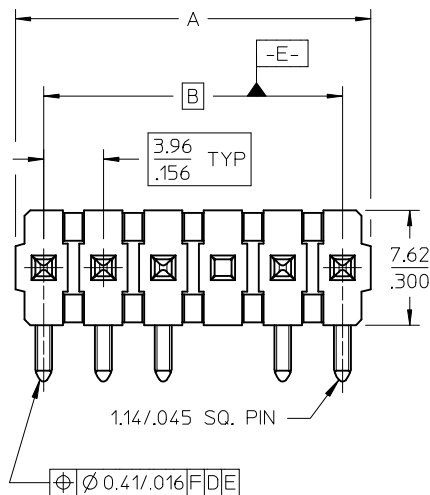
PCB LAYOUT: COMPONENT SIDE  
RECOMMENDED PCB THICKNESS:  
(1.57 ± .18) / .062 ± .007

|                                                                                                      |                                                                                                                                   |
|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| NOTE 9 ADDED<br>EC NO: UCP2018-0013<br>DRWNGES 2017/07/05<br>CHKD: SHWARG<br>APPR: SHWARG 2017/07/28 | QUALITY SYMBOLS                                                                                                                   |
|                                                                                                      | <div> <div> <div></div> <div>=0</div> </div> <div> <div></div> <div>=0</div> </div> <div> <div></div> <div>=0</div> </div> </div> |
| B                                                                                                    | REV                                                                                                                               |

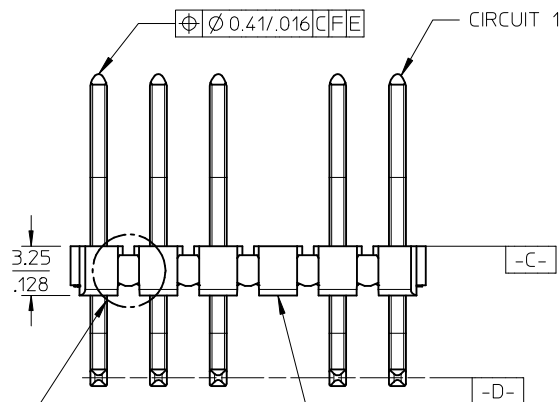
| GENERAL TOLERANCES (UNLESS SPECIFIED)                |        |        |
|------------------------------------------------------|--------|--------|
|                                                      | mm     | INCH   |
| 4 PLACES                                             | ± ---  | ± ---  |
| 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 |            |
|-----------------|------------|
| MM/IN           |            |
| DRAWN BY        | DATE       |
| MKIPPER         | 2013/08/15 |
| CHECKED BY      | DATE       |
| JBELL           | 2013/08/16 |
| APPROVED BY     | DATE       |
| FSMITH          | 2013/09/13 |
| MATERIAL NO.    |            |
| SEE CHART       |            |
| SIZE            | A          |

|                                                                                                                 |                      |                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------|
| SCALE<br>2:1                                                                                                    | DESIGN UNITS<br>INCH |  THIRD ANGLE<br>PROJECTION |
| TITLE                                                                                                           |                      |                                                                                                                 |
| KK (3.96)/.156 RIGHT<br>ANGLE BREAKAWAY<br>HEADER ASSEMBLY                                                      |                      |                                                                                                                 |
| molex                                                                                                           |                      |                                                                                                                 |
| DOCUMENT NO.<br>SD-172173-0001                                                                                  |                      | SHEET NO.<br>1 OF *                                                                                             |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                      |                                                                                                                 |



DETAIL Z



SEE DETAIL Z

OPTIONAL VOIDED CIRCUIT  
SEE CHART FOR LOCATION

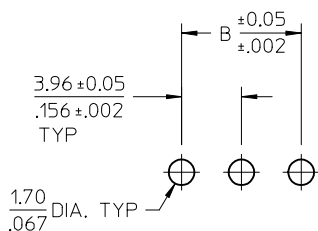
NOTES:

1. MATERIAL: GLASS FILLED POLYESTER, 94V-0, MOLDED BLACK
2. FINISH:

- (197) OVERALL REFLOWED MATTE TIN: 0.00152/.000060 MIN.  
OVER 0.00127/.000050 MIN. NICKEL OVERALL.
- (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.

3. PRODUCT SPECIFICATION: PS-08-50.
4. PACKAGING INFORMATION: SEE CHARTS
5. SOLDERABILITY: PER SMES-152.
6. PIN PUSH-OUT FORCE: PRIOR TO SOLDERING, A 3 LB. MINIMUM 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.
9. TEXT ON PART IS FOR REFERENCE ONLY. TEXT AND TEXT LOCATION MAY VARY DEPENDING ON PART NUMBER AND/OR TOOL.

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



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

|                                                                                  |             |            |
|----------------------------------------------------------------------------------|-------------|------------|
| NOTE 9 ADDED<br>EC NO: UCP2018-0013<br>DRWN: GES<br>CHKD: SHWARG<br>APPR: SHWARG | 2017/07/05  | 2017/07/28 |
|                                                                                  | DESCRIPTION | REV        |
| QUALITY SYMBOLS                                                                  |             |            |
| F = 0                                                                            |             |            |
| E = 0                                                                            |             |            |
| F = 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<br>MUST REMAIN<br>WITHIN DIMENSIONS |        |        |

| DIMENSION STYLE                                                                                                                  |            |
|----------------------------------------------------------------------------------------------------------------------------------|------------|
| MM/IN                                                                                                                            |            |
| DRAWN BY                                                                                                                         | DATE       |
| CHKIPPER                                                                                                                         | 2013/08/15 |
| CHECKED BY                                                                                                                       | DATE       |
| JBELL                                                                                                                            | 2013/08/16 |
| APPROVED BY                                                                                                                      | DATE       |
| FSMITH                                                                                                                           | 2013/09/13 |
| MATERIAL NO.                                                                                                                     |            |
| SEE CHART                                                                                                                        |            |
| SIZE                                                                                                                             | A          |
| THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX<br>INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |            |

|                                                                     |                      |                                                                                                                 |
|---------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------|
| SCALE<br>2:1                                                        | DESIGN UNITS<br>INCH |  THIRD ANGLE<br>PROJECTION |
| TITLE<br>KK (3.96)/.156 RIGHT<br>ANGLE BREAKAWAY<br>HEADER ASSEMBLY |                      |                                                                                                                 |
| molex                                                               |                      |                                                                                                                 |
| DOCUMENT NO.<br>SD-172173-0001                                      |                      | SHEET NO.<br>1 OF *                                                                                             |

|                   |                   |       |          |             |       |
|-------------------|-------------------|-------|----------|-------------|-------|
| GROUP:            | 172173-0002/-0024 |       |          |             |       |
| PLATING           | 197 TIN           |       |          |             |       |
| MATING LENGTH: M  | 11.43 / .450      |       |          |             |       |
| GOLD POINT: G     | N/A               |       |          |             |       |
| PIN HEIGHT: Y     | 8.71 / .343       |       |          |             |       |
| PC TAIL LENGTH: P | 3.73 / .147       |       |          |             |       |
| TIN: T            | OVERALL           |       |          |             |       |
| CKTS:             | 2-24              |       |          |             |       |
| VOIDED CKTS:      | SEE TABLE         |       |          |             |       |
| PACKAGING:        | BULK PK-41662-001 |       |          |             |       |
| CIRCUITS          | PART NUMBER       | VOIDS | CIRCUITS | PART NUMBER | VOIDS |
| 2                 | 172173-0002       |       | 14       | 172173-0014 |       |
| 3                 | 172173-0003       |       | 15       | 172173-0015 |       |
| 4                 | 172173-0004       |       | 16       | 172173-0016 |       |
| 5                 | 172173-0005       |       | 17       | 172173-0017 |       |
| 6                 | 172173-0006       |       | 18       | 172173-0018 |       |
| 7                 | 172173-0007       |       | 19       | 172173-0019 |       |
| 8                 | 172173-0008       |       | 20       | 172173-0020 |       |
| 9                 | 172173-0009       |       | 21       | 172173-0021 |       |
| 10                | 172173-0010       |       | 22       | 172173-0022 |       |
| 11                | 172173-0011       |       | 23       | 172173-0023 |       |
| 12                | 172173-0012       |       | 24       | 172173-0024 |       |
| 13                | 172173-0013       |       |          |             |       |

|                   |                   |       |          |             |       |
|-------------------|-------------------|-------|----------|-------------|-------|
| GROUP:            | 172173-1002/-1024 |       |          |             |       |
| PLATING           | 208 GOLD          |       |          |             |       |
| MATING LENGTH: M  | 11.43 / .450      |       |          |             |       |
| GOLD POINT: G     | 6.86 / .270       |       |          |             |       |
| PIN HEIGHT: Y     | 8.71 / .343       |       |          |             |       |
| PC TAIL LENGTH: P | 3.73 / .147       |       |          |             |       |
| TIN: T            | 5.08 / .200       |       |          |             |       |
| CKTS:             | 2-24              |       |          |             |       |
| VOIDED CKTS:      | SEE TABLE         |       |          |             |       |
| PACKAGING:        | BULK PK-41662-001 |       |          |             |       |
| CIRCUITS          | PART NUMBER       | VOIDS | CIRCUITS | PART NUMBER | VOIDS |
| 2                 | 172173-1002       |       | 14       | 172173-1014 |       |
| 3                 | 172173-1003       |       | 15       | 172173-1015 |       |
| 4                 | 172173-1004       |       | 16       | 172173-1016 |       |
| 5                 | 172173-1005       |       | 17       | 172173-1017 |       |
| 6                 | 172173-1006       |       | 18       | 172173-1018 |       |
| 7                 | 172173-1007       |       | 19       | 172173-1019 |       |
| 8                 | 172173-1008       |       | 20       | 172173-1020 |       |
| 9                 | 172173-1009       |       | 21       | 172173-1021 |       |
| 10                | 172173-1010       |       | 22       | 172173-1022 |       |
| 11                | 172173-1011       |       | 23       | 172173-1023 |       |
| 12                | 172173-1012       |       | 24       | 172173-1024 |       |
| 13                | 172173-1013       |       |          |             |       |

|                       |                             |                                                               |               |
|-----------------------|-----------------------------|---------------------------------------------------------------|---------------|
| REV:                  | ECR/ECN INFORMATION:        | TITLE:                                                        | SHEET No.     |
| <b>A</b>              | EC No.: <b>UCP2014-0747</b> | <b>KK .156 HEADER ASSEMBLY<br/>FLAT BREAKAWAY, 2-24 CKTS.</b> | <b>- 2 -</b>  |
|                       | DATE: <b>2/9/2016</b>       |                                                               |               |
| DOCUMENT NUMBER:      | CREATED / REVISED BY:       | CHECKED BY:                                                   | APPROVED BY:  |
| <b>SD-172173-0001</b> | <b>MKIPPER</b>              | <b>JBELL</b>                                                  | <b>FSMITH</b> |