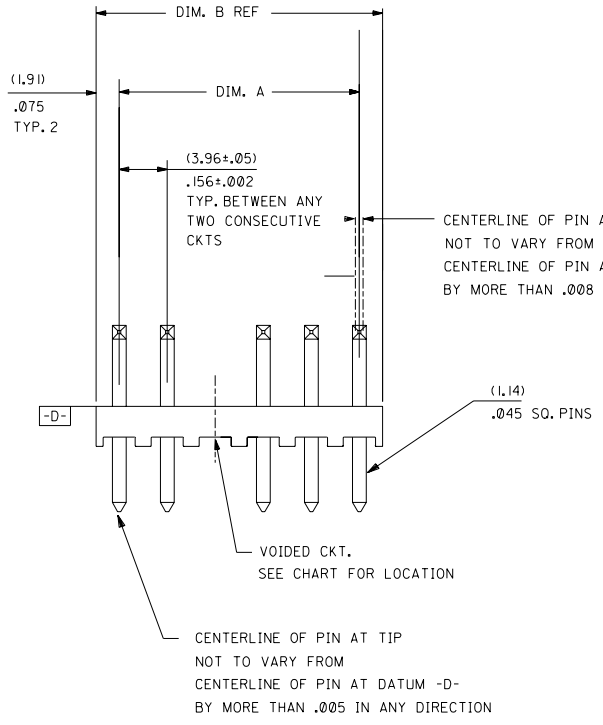
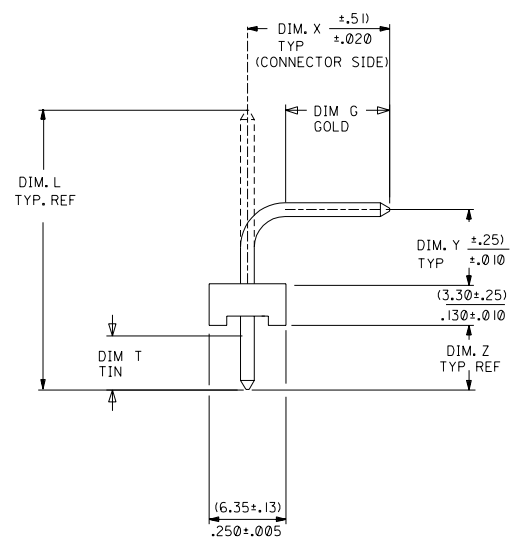


RECOMMENDED PC BOARD HOLE LAYOUT  
FOR CORRECT ORIENTATION OF PARTS WITH  
VOIDS ELIMINATE CORRESPONDING PCB HOLE



| NO. OF CKT'S. | DIM. A                    | DIM. B           |
|---------------|---------------------------|------------------|
| 2             | (3.96±.05)<br>.156±.002   | (7.77)<br>.306   |
| 3             | (7.92±.08)<br>.312±.003   | (11.73)<br>.462  |
| 4             | (11.89±.08)<br>.468±.003  | (15.70)<br>.618  |
| 5             | (15.85±.10)<br>.624±.004  | (19.66)<br>.774  |
| 6             | (19.81±.10)<br>.780±.004  | (23.62)<br>.930  |
| 7             | (23.77±.10)<br>.936±.004  | (27.58)<br>1.086 |
| 8             | (27.74±.13)<br>1.092±.005 | (31.55)<br>1.242 |
| 9             | (31.70±.13)<br>1.248±.005 | (35.51)<br>1.398 |
| 10            | (35.66±.13)<br>1.404±.005 | (39.47)<br>1.554 |
| 11            | (39.62±.15)<br>1.560±.006 | (43.43)<br>1.710 |
| 12            | (43.59±.15)<br>1.716±.006 | (47.40)<br>1.866 |
| 13            | (47.55±.15)<br>1.872±.006 | (51.36)<br>2.022 |
| 14            | (51.51±.18)<br>2.028±.007 | (55.32)<br>2.178 |
| 15            | (55.47±.18)<br>2.184±.007 | (59.28)<br>2.334 |
| 16            | (59.44±.18)<br>2.340±.007 | (63.25)<br>2.490 |
| 17            | (63.40±.20)<br>2.496±.008 | (67.21)<br>2.646 |
| 18            | (67.36±.20)<br>2.652±.008 | (71.17)<br>2.802 |

NOTES:

- PRECEDING ENG. NO. IN CHART DESIGNATES STANDARD PRODUCT.
- SOLDERABILITY: WHEN PARTS ARE SOLDERED AT A TEMPERATURE OF 230°C (446°F) FOR 5 SECONDS, EACH SOLDERED SURFACE SHALL BE A MINIMUM OF 95% COVERED WITH A SMOOTH CONTINUOUS ADHERENT COATING. FOR OTHER INFORMATION SEE ES-152.
- PIN PUSH OUT FORCE: PRIOR TO SOLDERING, A 3 POUND MINIMUM FORCE (IN EITHER DIRECTION) SHALL BE REQUIRED TO PUSH THE PIN OUT OF THE HEADER.
- FOR ADDITIONAL INFORMATION AND TESTING PROCEDURES SEE PS-08-50.
- PARTS ARE STACKABLE END TO END ON (3.96)/.156 CENTERS.
- FOR PART WITH PEG SEE DWG. NO. SDA-42472

MATERIAL: HEADER: GLASS FILLED POLYESTER, 94V-0, MOLDED NATURAL (WHITE).  
PIN: BRASS

PLATINGS:  
(102) ELECTRO TIN .000450/.000200 OVER .000200/.000100 COPPER  
(567) SELECT GOLD 15 M.I. MIN SELECT TIN/LEAD 100 M.I. MIN OVER NICKEL OVERALL  
(569) SELECT GOLD 30 M.I. MIN SELECT TIN/LEAD 100 M.I. MIN OVER NICKEL OVERALL  
FOR ADDITIONAL INFORMATION SE SDES-88.

| FILE NAME | REVISIONS |
|-----------|-----------|
| 541772.X  |           |

|  |    |
|--|----|
| REL 0588/0604<br>UCR2002-0752<br>03/11/02 SAMIEC | HI |
| REV TO WW SPEC<br>UCR2002-0077<br>7/25/01 SAMIEC | H  |
| REL 0574/0587<br>UCR2001-0262<br>9-19-00 SAMIEC  | G3 |

DIMENSIONS SHOWN (METRIC) INCH  
UNLESS OTHERWISE SPECIFIED  
TOLERANCES: ANGULAR ± 1/2°

|           |      |        |
|-----------|------|--------|
| 3 PLACE ± | INCH | METRIC |
| 2 PLACE ± |      |        |
| 1 PLACE ± |      |        |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DRWG. BY: SAMIEC  
CHK'D. BY: PATEL  
APP'D. BY: LENZ  
SCALE: :

TITLE: FLAT HEADER ASS'Y  
.156 C BENT SQ PINS, W/O PEG  
41772 SERIES DRAWING

MOLEX INCORPORATED  
LISLE, ILL. 60532 U.S.A.

SHEET NO. 1 OF 6  
DATE 09/09/87

PART NO. SEE CHART  
DRWG. NO. SDA-41772

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION.

|   |    |
|---|----|
| 6 | HI |
| 5 | H  |
| 4 | H  |
| 3 | H  |
| 2 | H  |
| 1 | HI |

MFG. SH. REV.

|   | 13                | 12              | 11             | 10      | 9                | 8               | 7           | 6               | 41772           |                | 4      | 3          | 2         | 1                        |
|---|-------------------|-----------------|----------------|---------|------------------|-----------------|-------------|-----------------|-----------------|----------------|--------|------------|-----------|--------------------------|
|   | ENG. NO.          | HEADER NO.      | PIN NO.        | PLATING | DIM. L           | DIM. X          | DIM. G GOLD | DIM. Y          | DIM. Z          | DIM. T TIN     | DIM. W | NO OF CKTS | VOID CKTS | PACKAGING                |
| J | A-41772-0206/0222 | 41770-0002/0018 | 2161-19(102)   | 102     | (26.13)<br>1.032 | (14.86)<br>.585 | ( )<br>N/A  | (4.95 )<br>.195 | (4.37 )<br>.172 | ( )<br>OVERALL | 90°    | 2-18       |           | BULK PER<br>PK-41772-002 |
|   | A-41772-0291/0307 | 41770-0002/0018 | 2161-62(102) * | 102     | (24.89)<br>.980  | (13.54)<br>.533 | ( )<br>N/A  | (4.93 )<br>.194 | (3.86 )<br>.152 | ( )<br>OVERALL | 90°    | 2-18       |           | BULK PER<br>PK-41772-002 |
|   | A-41772-0308/0324 | 41770-0002/0018 | 2161-75(102) * | 102     | (16.94)<br>.667  | (5.87 )<br>.231 | ( )<br>N/A  | (4.90 )<br>.193 | (3.61 )<br>.142 | ( )<br>OVERALL | 90°    | 2-18       |           | BULK PER<br>PK-41772-002 |
| I | A-41772-0325/0340 | 41770-0003/0018 | 2161-16(102)   | 102     | (25.40)<br>1.000 | (14.86)<br>.585 | ( )<br>N/A  | (4.95 )<br>.195 | (3.56 )<br>.140 | ( )<br>OVERALL | 90°    | 3-18       | 3         | BULK PER<br>PK-41772-002 |
|   | A-41772-0341/0352 | 41770-0007/0018 | 2161-16(102)   | 102     | (25.40)<br>1.000 | (14.86)<br>.585 | ( )<br>N/A  | (4.95 )<br>.195 | (3.56 )<br>.140 | ( )<br>OVERALL | 90°    | 7-18       | 7         | BULK PER<br>PK-41772-002 |
|   | A-41772-0353/0367 | 41770-0004/0018 | 2161-16(102)   | 102     | (25.40)<br>1.000 | (14.86)<br>.585 | ( )<br>N/A  | (4.95 )<br>.195 | (3.56 )<br>.140 | ( )<br>OVERALL | 90°    | 4-18       | 4         | BULK PER<br>PK-41772-002 |

\* ON ASSEMBLIES A-41772-0291 / 0324 THE PIN BEND RADIUS IS TO BE .045 R

| A-41772-0206/0222 |              |            | A-41772-0291/0307 |              |            | A-41772-0308/0324 |              |            | A-41772-0325/0340 |              |            | A-41772-0341/0352 |              |            | A-41772-0353/0367 |              |            |
|-------------------|--------------|------------|-------------------|--------------|------------|-------------------|--------------|------------|-------------------|--------------|------------|-------------------|--------------|------------|-------------------|--------------|------------|
| EDP NO.           | ENG. NO.     | NO OF CKTS | EDP NO.           | ENG. NO.     | NO OF CKTS | EDP NO.           | ENG. NO.     | NO OF CKTS | EDP NO.           | ENG. NO.     | NO OF CKTS | EDP NO.           | ENG. NO.     | NO OF CKTS | EDP NO.           | ENG. NO.     | NO OF CKTS |
|                   | A-41772-0206 | 2          |                   | A-41772-0291 | 2          | 26-60-3028        | A-41772-0308 | 2          |                   |              | 2          |                   |              | 2          |                   |              | 2          |
|                   | A-41772-0207 | 3          |                   | A-41772-0292 | 3          | 26-60-3038        | A-41772-0309 | 3          |                   | A-41772-0325 | 3          |                   |              | 3          |                   |              | 3          |
|                   | A-41772-0208 | 4          | 26-60-3047        | A-41772-0293 | 4          | 26-60-3048        | A-41772-0310 | 4          |                   | A-41772-0326 | 4          |                   |              | 4          | A-41772-0353      |              | 4          |
|                   | A-41772-0209 | 5          | 26-60-3057        | A-41772-0294 | 5          | 26-60-3058        | A-41772-0311 | 5          |                   | A-41772-0327 | 5          |                   |              | 5          | A-41772-0354      |              | 5          |
|                   | A-41772-0210 | 6          | 26-60-3067        | A-41772-0295 | 6          | 26-60-3068        | A-41772-0312 | 6          | 26-62-3061        | A-41772-0328 | 6          |                   |              | 6          | A-41772-0355      |              | 6          |
|                   | A-41772-0211 | 7          | 26-60-3077        | A-41772-0296 | 7          | 26-60-3078        | A-41772-0313 | 7          |                   | A-41772-0329 | 7          |                   | A-41772-0341 | 7          |                   |              | 7          |
|                   | 26-60-3082   | 8          |                   | A-41772-0297 | 8          | 26-60-3088        | A-41772-0314 | 8          | 26-62-3081        | A-41772-0330 | 8          | 26-62-3082        | A-41772-0342 | 8          | 26-62-3083        | A-41772-0357 | 8          |
|                   | A-41772-0213 | 9          | 26-60-3097        | A-41772-0298 | 9          | 26-60-3098        | A-41772-0315 | 9          |                   | A-41772-0331 | 9          |                   | A-41772-0343 | 9          | A-41772-0358      |              | 9          |
|                   | A-41772-0214 | 10         |                   | A-41772-0299 | 10         | 26-60-3108        | A-41772-0316 | 10         |                   | A-41772-0332 | 10         |                   | A-41772-0344 | 10         | A-41772-0359      |              | 10         |
|                   | A-41772-0215 | 11         |                   | A-41772-0300 | 11         | 26-60-3118        | A-41772-0317 | 11         |                   | A-41772-0333 | 11         |                   | A-41772-0345 | 11         | A-41772-0360      |              | 11         |
|                   | 26-60-3122   | 12         | 26-60-3127        | A-41772-0301 | 12         | 26-60-3128        | A-41772-0318 | 12         |                   | A-41772-0334 | 12         |                   | A-41772-0346 | 12         | 26-62-3123        | A-41772-0361 | 12         |
|                   | A-41772-0217 | 13         |                   | A-41772-0302 | 13         | 26-60-3138        | A-41772-0319 | 13         |                   | A-41772-0335 | 13         |                   | A-41772-0347 | 13         | A-41772-0362      |              | 13         |
|                   | 26-60-3142   | 14         |                   | A-41772-0303 | 14         | 26-60-3148        | A-41772-0320 | 14         |                   | A-41772-0336 | 14         |                   | A-41772-0348 | 14         | A-41772-0363      |              | 14         |
|                   | A-41772-0219 | 15         |                   | A-41772-0304 | 15         | 26-60-3158        | A-41772-0321 | 15         |                   | A-41772-0337 | 15         | 26-62-3152        | A-41772-0349 | 15         | A-41772-0364      |              | 15         |
|                   | A-41772-0220 | 16         |                   | A-41772-0305 | 16         | 26-60-3168        | A-41772-0322 | 16         |                   | A-41772-0338 | 16         |                   | A-41772-0350 | 16         | A-41772-0365      |              | 16         |
|                   | A-41772-0221 | 17         |                   | A-41772-0306 | 17         | 26-60-3178        | A-41772-0323 | 17         |                   | A-41772-0339 | 17         |                   | A-41772-0351 | 17         | A-41772-0366      |              | 17         |
|                   | A-41772-0222 | 18         |                   | A-41772-0307 | 18         | 26-60-3188        | A-41772-0324 | 18         |                   | A-41772-0340 | 18         |                   | A-41772-0352 | 18         | A-41772-0367      |              | 18         |

|   |     |             |  |  |                               |  |                               |  |                               |  |                               |  |                               |  |                               |  |                               |  |                               |  |  |  |  |  |
|---|-----|-------------|--|--|-------------------------------|--|-------------------------------|--|-------------------------------|--|-------------------------------|--|-------------------------------|--|-------------------------------|--|-------------------------------|--|-------------------------------|--|--|--|--|--|
| SEE SHEET I   | E10 | SEE SHEET I |  | DIMENSIONS SHOWN (METRIC) INCH<br>UNLESS OTHERWISE SPECIFIED<br>TOLERANCES ANGULAR ± 1/2°<br>INCH METRIC<br>3 PLACE ± ±<br>2 PLACE ± ±<br>1 PLACE ± ±<br>DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS<br>DRWG. BY: SAMEC<br>CHK'D. BY: PATEL<br>APP'D. BY: LENZ<br>SCALE: | REVISIONS LTR. REVISIONS LTR. | DIMENSIONS SHOWN (METRIC) INCH<br>UNLESS OTHERWISE SPECIFIED<br>TOLERANCES ANGULAR ± 1/2°<br>INCH METRIC<br>3 PLACE ± ±<br>2 PLACE ± ±<br>1 PLACE ± ±<br>DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS<br>DRWG. BY: SAMEC<br>CHK'D. BY: PATEL<br>APP'D. BY: LENZ<br>SCALE: | REVISIONS LTR. REVISIONS LTR. | DIMENSIONS SHOWN (METRIC) INCH<br>UNLESS OTHERWISE SPECIFIED<br>TOLERANCES ANGULAR ± 1/2°<br>INCH METRIC<br>3 PLACE ± ±<br>2 PLACE ± ±<br>1 PLACE ± ±<br>DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS<br>DRWG. BY: SAMEC<br>CHK'D. BY: PATEL<br>APP'D. BY: LENZ<br>SCALE: | REVISIONS LTR. REVISIONS LTR. | DIMENSIONS SHOWN (METRIC) INCH<br>UNLESS OTHERWISE SPECIFIED<br>TOLERANCES ANGULAR ± 1/2°<br>INCH METRIC<br>3 PLACE ± ±<br>2 PLACE ± ±<br>1 PLACE ± ±<br>DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS<br>DRWG. BY: SAMEC<br>CHK'D. BY: PATEL<br>APP'D. BY: LENZ<br>SCALE: | REVISIONS LTR. REVISIONS LTR. | DIMENSIONS SHOWN (METRIC) INCH<br>UNLESS OTHERWISE SPECIFIED<br>TOLERANCES ANGULAR ± 1/2°<br>INCH METRIC<br>3 PLACE ± ±<br>2 PLACE ± ±<br>1 PLACE ± ±<br>DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS<br>DRWG. BY: SAMEC<br>CHK'D. BY: PATEL<br>APP'D. BY: LENZ<br>SCALE: | REVISIONS LTR. REVISIONS LTR. | DIMENSIONS SHOWN (METRIC) INCH<br>UNLESS OTHERWISE SPECIFIED<br>TOLERANCES ANGULAR ± 1/2°<br>INCH METRIC<br>3 PLACE ± ±<br>2 PLACE ± ±<br>1 PLACE ± ±<br>DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS<br>DRWG. BY: SAMEC<br>CHK'D. BY: PATEL<br>APP'D. BY: LENZ<br>SCALE: | REVISIONS LTR. REVISIONS LTR. | DIMENSIONS SHOWN (METRIC) INCH<br>UNLESS OTHERWISE SPECIFIED<br>TOLERANCES ANGULAR ± 1/2°<br>INCH METRIC<br>3 PLACE ± ±<br>2 PLACE ± ±<br>1 PLACE ± ±<br>DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS<br>DRWG. BY: SAMEC<br>CHK'D. BY: PATEL<br>APP'D. BY: LENZ<br>SCALE: | REVISIONS LTR. REVISIONS LTR. | DIMENSIONS SHOWN (METRIC) INCH<br>UNLESS OTHERWISE SPECIFIED<br>TOLERANCES ANGULAR ± 1/2°<br>INCH METRIC<br>3 PLACE ± ±<br>2 PLACE ± ±<br>1 PLACE ± ±<br>DRAFT WHERE APPLICABLE MUST<br>REMAIN WITHIN DIMENSIONS<br>DRWG. BY: SAMEC<br>CHK'D. BY: PATEL<br>APP'D. BY: LENZ<br>SCALE: | REVISIONS LTR. REVISIONS LTR. |  |  |  |  |  |
| SEE SHEET I   | E9  | SEE SHEET I |  |  |                               |  |                               |  |                               |  |                               |  |                               |  |                               |  |                               |  |                               |  |  |  |  |  |
| SEE SHEET I   | E8  | SEE SHEET I |  |  |                               |  |                               |  |                               |  |                               |  |                               |  |                               |  |                               |  |                               |  |  |  |  |  |
| SEE SHEET I   | E7  | SEE SHEET I |  |  |                               |  |                               |  |                               |  |                               |  |                               |  |                               |  |                               |  |                               |  |  |  |  |  |
| SEE SHEET I   | E6  | SEE SHEET I |  |  |                               |  |                               |  |                               |  |                               |  |                               |  |                               |  |                               |  |                               |  |  |  |  |  |
| SEE SHEET I   | E5  | SEE SHEET I |  |  |                               |  |                               |  |                               |  |                               |  |                               |  |                               |  |                               |  |                               |  |  |  |  |  |
| SEE SHEET I   | E4  | SEE SHEET I |  |  |                               |  |                               |  |                               |  |                               |  |                               |  |                               |  |                               |  |                               |  |  |  |  |  |
| FILE NAME: S41772X4<br>THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INC. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION. |     |             |  |  |                               |  |                               |  |                               | TITLE: FLAT HEADER ASSEMBLY<br>.156 Q BENT SQ PINS, W/O PEG<br>41772 SERIES DWG<br>MOLEX INCORPORATED<br>L15LEJLL 60532 U.S.A.<br>SHEET NO. 4 DATE 06/25/88<br>PART NO. SEE CHART DRWG. NO. SDA-41772  |                               |  |                               |  |                               |  |                               |  |                               |  |  |  |  |  |