

## Excellent Integrated System Limited

Stocking Distributor

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[Molex Connector Corporation](#)  
[0008590494](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

| NO. | DIM A          | NO. | DIM A          | NO. | DIM A          |
|-----|----------------|-----|----------------|-----|----------------|
| 1   | .750<br>19.05  | 36  | 1.200<br>30.48 | 90  | .545<br>13.84  |
| 3   | .937<br>23.80  | 37  | 1.100<br>27.94 | 91  | .560<br>14.22  |
| 4   | .500<br>12.70  | 38  | 1.500<br>38.10 | 92  | .575<br>14.61  |
| 5   | 1.375<br>34.93 | 40  | 1.900<br>48.26 | 93  | .610<br>15.49  |
| 6   | 2.000<br>50.80 | 41  | 1.270<br>32.26 | 94  | .720<br>18.29  |
| 7   | 1.562<br>39.67 | 45  | .821<br>20.85  | 96  | 1.531<br>38.89 |
| 10  | .437<br>11.10  | 48  | 1.625<br>41.28 | 99  | 1.781<br>45.24 |

|    |                |    |                |
|----|----------------|----|----------------|
| 11 | 1.750<br>44.45 | 51 | .325<br>8.26   |
| 12 | 1.437<br>36.50 | 52 | 1.063<br>27.00 |
| 13 | 1.670<br>42.42 | 53 | .250<br>6.35   |
| 14 | .380<br>9.65   | 56 | .703<br>17.86  |
| 15 | .625<br>15.88  | 61 | 1.406<br>35.71 |
| 16 | 1.000<br>25.40 | 62 | .980<br>24.89  |
| 18 | 1.312<br>33.32 | 63 | .960<br>24.38  |
| 19 | 1.032<br>26.21 | 64 | 1.175<br>29.85 |
| 20 | 1.812<br>46.02 | 65 | .894<br>22.71  |
| 21 | 1.125<br>28.58 | 66 | 1.150<br>29.21 |
| 22 | 1.250<br>31.75 | 67 | .736<br>18.69  |
| 23 | 1.230<br>31.24 | 68 | 1.342<br>34.09 |
| 24 | .800<br>20.32  | 69 | .775<br>19.69  |
| 26 | .875<br>22.23  | 70 | .915<br>23.24  |
| 28 | 1.710<br>43.43 | 71 | .472<br>11.99  |
| 30 | .650<br>16.51  | 75 | .667<br>16.94  |
| 35 | .687<br>17.45  | 89 | .530<br>13.46  |

NOTES:

1. MATERIAL: BRASS 260.

2. FINISH:

102 - TIN: .000200/0.00508 MIN. OVER COPPER

154 - TIN: .000100/0.00254 MIN. OVER NICKEL

501 - GOLD: .000020/0.00051 MIN. OVER NICKEL

3. PRODUCT SPECIFICATION: NONE

4. DIMENSIONS ARE GIVEN BEFORE PLATING UNLESS OTHERWISE SPECIFIED.

5. SOLDERABILITY SPECIFICATION: SMES-152 AFTER PLATING

6. CAMBER SPECIFICATION: .005 MM/MM OR .005 IN/IN MAX

7. BURR SPECIFICATION: ES-151

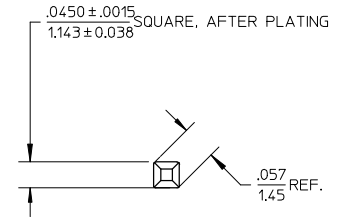
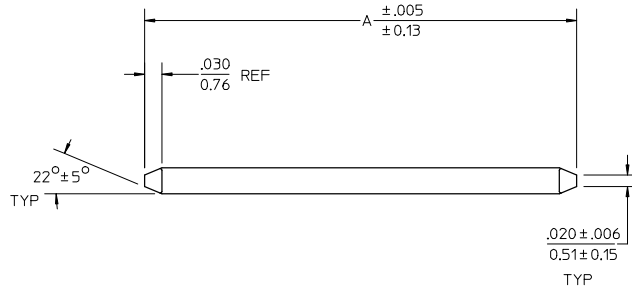
8. RECOMMENDED PCB HOLE SPECIFICATION FOR PRESS FIT PINS: .062±.005 / 1.57±0.13 THK PCB

PUNCHED HOLES: .050±.002 / 1.27±0.05

DRILLED HOLES: .0535±.0015 / 1.359±0.038

PLATED THRU HOLES: .0525±.0025 / 1.334±0.064

9. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.



|       |     |
|-------|-----|
| 2-*   | AH2 |
| 1     | AH2 |
| SHEET | REV |

|                                                                                                                                        |             |                                   |                                                            |       |                                                                                                                               |                         |                    |                                  |                                                                                                              |                             |                     |  |
|----------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------|------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------|----------------------------------|--------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------|--|
| ADD P/N TO SHT 6<br>EC NO: UCP2008-3117<br>DRWNG:GAVERILL 2008/06/25<br>CHKD:AEIHAG 2008/07/01<br>APPR:FSMITH 2008/07/01<br>AH2<br>REV | DESCRIPTION | QUALITY SYMBOLS<br><br>▽=0<br>◻=0 | GENERAL TOLERANCES (UNLESS SPECIFIED)                      |       | DIMENSION STYLE<br>IN/MM                                                                                                      |                         | SCALE<br>4:1       | DESIGN UNITS<br>INCH             |  THIRD ANGLE PROJECTION |                             |                     |  |
|                                                                                                                                        |             |                                   |                                                            | mm    | INCH                                                                                                                          | DRAWN BY<br>SAMIEC      | DATE<br>2004/02/27 | TITLE<br>KK .045 SQ PIN<br>LOOSE |                                                                                                              |                             |                     |  |
|                                                                                                                                        |             |                                   | 4 PLACES                                                   | ± --- | ± ---                                                                                                                         | CHECKED BY              | DATE               |                                  |                                                                                                              |                             |                     |  |
|                                                                                                                                        |             |                                   | 3 PLACES                                                   | ± --- | ± ---                                                                                                                         | SAMIEC                  | 2004/02/27         |                                  |                                                                                                              |                             |                     |  |
|                                                                                                                                        |             |                                   | 2 PLACES                                                   | ± --- | ± ---                                                                                                                         | APPROVED BY<br>MARGULIS |                    | DATE<br>2004/02/27               |                                                                                                              | MOLEX INCORPORATED          |                     |  |
|                                                                                                                                        |             |                                   | 1 PLACE                                                    | ± --- | ± ---                                                                                                                         | ANGULAR ±1/2°           |                    | MATERIAL NO.                     |                                                                                                              | DOCUMENT NO.<br>SD-2161-001 | SHEET NO.<br>1 OF * |  |
|                                                                                                                                        |             |                                   | DRAFT WHERE APPLICABLE<br>MUST REMAIN<br>WITHIN DIMENSIONS |       | SEE CHART                                                                                                                     |                         |                    |                                  |                                                                                                              |                             |                     |  |
|                                                                                                                                        |             |                                   |                                                            |       | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                         |                    |                                  |                                                                                                              |                             |                     |  |

[illegible]

|           |              | TIN       |              |
|-----------|--------------|-----------|--------------|
| PART NO:  | ENG NO:      | PART NO:  | ENG NO:      |
| 008500401 | 2161-1(102)  | 008500440 | 2161-40(102) |
| 008500403 | 2161-3(102)  | 008500444 | 2161-41(102) |
| 008500404 | 2161-4(102)  | 008500450 | 2161-45(102) |
| 008500405 | 2161-5(102)  | 008500439 | 2161-48(102) |
| 008500406 | 2161-6(102)  | 008500457 | 2161-51(102) |
| 008500407 | 2161-7(102)  | 008500455 | 2161-52(102) |
| 008500410 | 2161-10(102) | 008500453 | 2161-53(102) |
| 008500411 | 2161-11(102) | 008500474 | 2161-56(102) |
| 008500412 | 2161-12(102) | 008500430 | 2161-61(102) |
| 008500413 | 2161-13(102) | 008500477 | 2161-62(102) |
| 008500414 | 2161-14(102) | 008500498 | 2161-63(102) |
| 008500415 | 2161-15(102) | 008500478 | 2161-64(102) |
| 008500416 | 2161-16(102) | 008500483 | 2161-65(102) |
| 008500418 | 2161-18(102) | 008500460 | 2161-66(102) |
| 008500419 | 2161-19(102) | 008500552 | 2161-67(102) |
| 008500420 | 2161-20(102) | 008500493 | 2161-68(102) |
| 008500421 | 2161-21(102) | 008500485 | 2161-69(102) |
| 008500422 | 2161-22(102) | 008500492 | 2161-70(102) |
| 008500423 | 2161-23(102) | 008500473 | 2161-71(102) |
| 008500424 | 2161-24(102) | 008500495 | 2161-75(102) |
| 008500432 | 2161-26(102) | 008500458 | 2161-89(102) |
| 008500431 | 2161-28(102) | 008500551 | 2161-90(102) |
| 008500448 | 2161-30(102) |           | 2161-91(102) |
| 008500435 | 2161-35(102) | 008500400 | 2161-92(102) |
| 008500436 | 2161-36(102) |           | 2161-93(102) |
| 008500443 | 2161-37(102) | 008500497 | 2161-94(102) |
| 008500438 | 2161-38(102) | 008500553 | 2161-96(102) |
|           |              | 008500494 | 2161-99(102) |

|                                                  |                             |                                              |                                              |                                   |
|--------------------------------------------------|-----------------------------|----------------------------------------------|----------------------------------------------|-----------------------------------|
| REV:<br><br>AH2                                  | <u>ECR/ECN INFORMATION:</u> |                                              | <u>TITLE:</u><br><br>KK .045 SQ PIN<br>LOOSE | <u>SHEET No.</u><br><br>- 2 -     |
|                                                  | <u>EC No.:</u> UCP2008-3117 |                                              |                                              |                                   |
|                                                  | <u>DATE:</u> 7/1/2008       |                                              |                                              |                                   |
| <u>DOCUMENT NUMBER:</u><br><br>SD- 2161-001      |                             | <u>CREATED / REVISED BY:</u><br><br>GAVERILL | <u>CHECKED BY:</u><br><br>AELHAG             | <u>APPROVED BY:</u><br><br>FSMITH |
| TEMPLATE FILENAME: PRODUCT_SPEC\SIZE_A\K.V.1.DOC |                             |                                              |                                              |                                   |

| GOLD      |              |           |              |
|-----------|--------------|-----------|--------------|
| PART NO:  | ENG NO:      | PART NO:  | ENG NO:      |
| 008560401 | 2161-1(501)  | 008560438 | 2161-38(501) |
| 008560403 | 2161-3(501)  | 008560440 | 2161-40(501) |
| 008560404 | 2161-4(501)  | 008560441 | 2161-41(501) |
| 008560405 | 2161-5(501)  | 008560450 | 2161-45(501) |
| 008560406 | 2161-6(501)  |           | 2161-48(501) |
| 008560407 | 2161-7(501)  |           | 2161-51(501) |
| 008560410 | 2161-10(501) | 008560452 | 2161-52(501) |
| 008560411 | 2161-11(501) |           | 2161-53(501) |
| 008560412 | 2161-12(501) | 008560492 | 2161-61(501) |
| 008560413 | 2161-13(501) | 008560488 | 2161-62(501) |
| 008560414 | 2161-14(501) |           | 2161-63(501) |
| 008560415 | 2161-15(501) | 008560497 | 2161-64(501) |
| 008560416 | 2161-16(501) | 008560457 | 2161-65(501) |
| 008560418 | 2161-18(501) |           | 2161-66(501) |
| 008560419 | 2161-19(501) |           | 2161-67(501) |
| 008560420 | 2161-20(501) |           | 2161-68(501) |
| 008560421 | 2161-21(501) | 008560469 | 2161-69(501) |
| 008560422 | 2161-22(501) |           | 2161-70(501) |
| 008560423 | 2161-23(501) |           | 2161-71(501) |
| 008560424 | 2161-24(501) |           | 2161-89(501) |
| 008560426 | 2161-26(501) |           | 2161-91(501) |
| 008560428 | 2161-28(501) | 008560400 | 2161-92(501) |
| 008560430 | 2161-30(501) |           | 2161-93(501) |
| 008560435 | 2161-35(501) | 008560499 | 2161-94(501) |
| 008560436 | 2161-36(501) | 008560490 | 2161-96(501) |
| 008560437 | 2161-37(501) |           | 2161-99(501) |
|           |              |           |              |
|           |              |           |              |

| TIN       |              |           |              |
|-----------|--------------|-----------|--------------|
| PART NO:  | ENG NO:      | PART NO:  | ENG NO:      |
| 008590401 | 2161-1(122)  |           | 2161-38(122) |
| 008590403 | 2161-3(122)  |           | 2161-40(122) |
|           | 2161-4(122)  |           | 2161-41(122) |
|           | 2161-5(122)  |           | 2161-45(122) |
|           | 2161-6(122)  |           | 2161-48(122) |
|           | 2161-7(122)  |           | 2161-51(122) |
|           | 2161-10(122) |           | 2161-52(122) |
|           | 2161-11(122) |           | 2161-53(122) |
|           | 2161-12(122) |           | 2161-61(122) |
|           | 2161-13(122) |           | 2161-62(122) |
| 008590414 | 2161-14(122) |           | 2161-63(122) |
|           | 2161-15(122) | 008590464 | 2161-64(122) |
| 008590416 | 2161-16(122) |           | 2161-65(122) |
|           | 2161-18(122) |           | 2161-66(122) |
| 008590419 | 2161-19(122) |           | 2161-67(122) |
|           | 2161-20(122) |           | 2161-68(122) |
|           | 2161-21(122) |           | 2161-69(122) |
|           | 2161-22(122) |           | 2161-70(122) |
| 008590423 | 2161-23(122) |           | 2161-71(122) |
|           | 2161-24(122) | 008590489 | 2161-89(122) |
|           | 2161-26(122) | 008500468 | 2161-91(122) |
|           | 2161-28(122) |           | 2161-92(122) |
| 008590430 | 2161-30(122) |           | 2161-93(122) |
|           | 2161-35(122) | 008590494 | 2161-94(122) |
| 008590436 | 2161-36(122) |           | 2161-96(122) |
| 008590437 | 2161-37(122) |           | 2161-99(122) |
|           |              |           |              |
|           |              |           |              |

|                     |                      |                                 |               |               |
|---------------------|----------------------|---------------------------------|---------------|---------------|
| REV:                | ECR/ECN INFORMATION: | TITLE:                          |               | SHEET No.     |
| <b>AH2</b>          | EC No.: UCP2008-3117 | <b>KK .045 SQ PIN<br/>LOOSE</b> |               | <b>- 3 -</b>  |
|                     | DATE: 7/1/2008       |                                 |               |               |
| DOCUMENT NUMBER:    |                      | CREATED / REVISED BY:           | CHECKED BY:   | APPROVED BY:  |
| <b>SD- 2161-001</b> |                      | <b>GAVERILL</b>                 | <b>AELHAG</b> | <b>FSMITH</b> |

| GOLD      |              |           |              |
|-----------|--------------|-----------|--------------|
| PART NO:  | ENG NO:      | PART NO:  | ENG NO:      |
| 008560501 | 2161-1(503)  |           | 2161-38(503) |
| 008560503 | 2161-3(503)  |           | 2161-40(503) |
|           | 2161-4(503)  |           | 2161-41(503) |
|           | 2161-5(503)  | 008560545 | 2161-45(503) |
|           | 2161-6(503)  |           | 2161-48(503) |
|           | 2161-7(503)  |           | 2161-51(503) |
|           | 2161-10(503) | 008560552 | 2161-52(503) |
|           | 2161-11(503) |           | 2161-53(503) |
| 008560512 | 2161-12(503) |           | 2161-61(503) |
|           | 2161-13(503) |           | 2161-62(503) |
|           | 2161-14(503) |           | 2161-63(503) |
| 008560515 | 2161-15(503) | 008560564 | 2161-64(503) |
| 008560516 | 2161-16(503) |           | 2161-65(503) |
|           | 2161-18(503) |           | 2161-66(503) |
| 008560519 | 2161-19(503) |           | 2161-67(503) |
|           | 2161-20(503) | 008560568 | 2161-68(503) |
| 008560521 | 2161-21(503) |           | 2161-69(503) |
|           | 2161-22(503) |           | 2161-70(503) |
| 008560525 | 2161-23(503) |           | 2161-71(503) |
|           | 2161-24(503) | 008560589 | 2161-89(503) |
|           | 2161-26(503) |           | 2161-91(503) |
|           | 2161-28(503) |           | 2161-92(503) |
| 008560530 | 2161-30(503) |           | 2161-93(503) |
|           | 2161-35(503) | 008560594 | 2161-94(503) |
| 008560536 | 2161-36(503) |           | 2161-96(503) |
| 008560537 | 2161-37(503) |           | 2161-99(503) |
|           |              |           |              |
|           |              |           |              |

| GOLD      |              |           |              |
|-----------|--------------|-----------|--------------|
| PART NO:  | ENG NO:      | PART NO:  | ENG NO:      |
| 008560801 | 2161-1(505)  |           | 2161-38(505) |
|           | 2161-3(505)  |           | 2161-40(505) |
|           | 2161-4(505)  |           | 2161-41(505) |
| 008560805 | 2161-5(505)  |           | 2161-45(505) |
|           | 2161-6(505)  |           | 2161-48(505) |
|           | 2161-7(505)  |           | 2161-51(505) |
|           | 2161-10(505) | 008560852 | 2161-52(505) |
|           | 2161-11(505) |           | 2161-53(505) |
|           | 2161-12(505) |           | 2161-61(505) |
|           | 2161-13(505) |           | 2161-62(505) |
|           | 2161-14(505) |           | 2161-63(505) |
|           | 2161-15(505) | 008560864 | 2161-64(505) |
| 008560816 | 2161-16(505) |           | 2161-65(505) |
|           | 2161-18(505) | 008560866 | 2161-66(505) |
|           | 2161-19(505) |           | 2161-67(505) |
|           | 2161-20(505) |           | 2161-68(505) |
|           | 2161-21(505) |           | 2161-69(505) |
|           | 2161-22(505) |           | 2161-70(505) |
|           | 2161-23(505) |           | 2161-71(505) |
|           | 2161-24(505) |           | 2161-89(505) |
|           | 2161-26(505) |           | 2161-91(505) |
|           | 2161-28(505) |           | 2161-92(505) |
|           | 2161-30(505) |           | 2161-93(505) |
|           | 2161-35(505) |           | 2161-94(505) |
| 008560836 | 2161-36(505) |           | 2161-96(505) |
| 008560837 | 2161-37(505) |           | 2161-99(505) |
|           |              |           |              |
|           |              |           |              |

|                                                    |                                    |                                                     |                                                      |                                          |
|----------------------------------------------------|------------------------------------|-----------------------------------------------------|------------------------------------------------------|------------------------------------------|
| REV:<br><br><b>AH2</b>                             | <u>ECR/ECN INFORMATION:</u>        |                                                     | <u>TITLE:</u><br><br><b>KK .045 SQ PIN<br/>LOOSE</b> | <u>SHEET No.</u><br><br><b>- 4 -</b>     |
|                                                    | <u>EC No.:</u> <b>UCP2008-3117</b> |                                                     |                                                      |                                          |
|                                                    | <u>DATE:</u> <b>7/1/2008</b>       |                                                     |                                                      |                                          |
| <u>DOCUMENT NUMBER:</u><br><br><b>SD- 2161-001</b> |                                    | <u>CREATED / REVISED BY:</u><br><br><b>GAVERILL</b> | <u>CHECKED BY:</u><br><br><b>AELHAG</b>              | <u>APPROVED BY:</u><br><br><b>FSMITH</b> |
| TEMPLATE FILENAME: PRODUCT_SPEC\SIZE_A\K.V.1.DOC   |                                    |                                                     |                                                      |                                          |

| GOLD      |              |           |              |
|-----------|--------------|-----------|--------------|
| PART NO:  | ENG NO:      | PART NO:  | ENG NO:      |
|           | 2161-1(507)  |           | 2161-38(507) |
|           | 2161-3(507)  |           | 2161-40(507) |
|           | 2161-4(507)  |           | 2161-41(507) |
| 008560465 | 2161-5(507)  |           | 2161-45(507) |
|           | 2161-6(507)  |           | 2161-48(507) |
|           | 2161-7(507)  |           | 2161-51(507) |
|           | 2161-10(507) | 008560495 | 2161-52(507) |
|           | 2161-11(507) |           | 2161-53(507) |
|           | 2161-12(507) |           | 2161-61(507) |
|           | 2161-13(507) |           | 2161-62(507) |
|           | 2161-14(507) |           | 2161-63(507) |
|           | 2161-15(507) |           | 2161-64(507) |
|           | 2161-16(507) |           | 2161-65(507) |
|           | 2161-18(507) |           | 2161-66(507) |
|           | 2161-19(507) |           | 2161-67(507) |
|           | 2161-20(507) |           | 2161-68(507) |
|           | 2161-21(507) |           | 2161-69(507) |
|           | 2161-22(507) |           | 2161-70(507) |
|           | 2161-23(507) |           | 2161-71(507) |
|           | 2161-24(507) |           | 2161-89(507) |
|           | 2161-26(507) |           | 2161-91(507) |
|           | 2161-28(507) |           | 2161-92(507) |
|           | 2161-30(507) |           | 2161-93(507) |
|           | 2161-35(507) |           | 2161-94(507) |
| 008560496 | 2161-36(507) |           | 2161-96(507) |
|           | 2161-37(507) |           | 2161-99(507) |
|           |              |           |              |
|           |              |           |              |

| GOLD      |              |          |              |
|-----------|--------------|----------|--------------|
| PART NO:  | ENG NO:      | PART NO: | ENG NO:      |
| 008580401 | 2161-1(516)  |          | 2161-38(516) |
|           | 2161-3(516)  |          | 2161-40(516) |
|           | 2161-4(516)  |          | 2161-41(516) |
|           | 2161-5(516)  |          | 2161-45(516) |
|           | 2161-6(516)  |          | 2161-48(516) |
|           | 2161-7(516)  |          | 2161-51(516) |
|           | 2161-10(516) |          | 2161-52(516) |
|           | 2161-11(516) |          | 2161-53(516) |
|           | 2161-12(516) |          | 2161-61(516) |
|           | 2161-13(516) |          | 2161-62(516) |
|           | 2161-14(516) |          | 2161-63(516) |
|           | 2161-15(516) |          | 2161-64(516) |
|           | 2161-16(516) |          | 2161-65(516) |
|           | 2161-18(516) |          | 2161-66(516) |
|           | 2161-19(516) |          | 2161-67(516) |
|           | 2161-20(516) |          | 2161-68(516) |
|           | 2161-21(516) |          | 2161-69(516) |
|           | 2161-22(516) |          | 2161-70(516) |
|           | 2161-23(516) |          | 2161-71(516) |
|           | 2161-24(516) |          | 2161-89(516) |
|           | 2161-26(516) |          | 2161-91(516) |
|           | 2161-28(516) |          | 2161-92(516) |
|           | 2161-30(516) |          | 2161-93(516) |
|           | 2161-35(516) |          | 2161-94(516) |
|           | 2161-36(516) |          | 2161-96(516) |
|           | 2161-37(516) |          | 2161-99(516) |
|           |              |          |              |
|           |              |          |              |

|                  |                       |                         |              |
|------------------|-----------------------|-------------------------|--------------|
| REV:             | ECR/ECN INFORMATION:  | TITLE:                  | SHEET No.    |
| AH2              | EC No.: UCP2008-3117  | KK .045 SQ PIN<br>LOOSE | - 5 -        |
|                  | DATE: 7/1/2008        |                         |              |
| DOCUMENT NUMBER: | CREATED / REVISED BY: | CHECKED BY:             | APPROVED BY: |
| SD- 2161-001     | GAVERILL              | AELHAG                  | FSMITH       |

| TIN        |              |          |              |
|------------|--------------|----------|--------------|
| PART NO:   | ENG NO:      | PART NO: | ENG NO:      |
| 50-36-2292 | 2161-1(224)  |          | 2161-38(224) |
|            | 2161-3(224)  |          | 2161-40(224) |
|            | 2161-4(224)  |          | 2161-41(224) |
|            | 2161-5(224)  |          | 2161-45(224) |
|            | 2161-6(224)  |          | 2161-48(224) |
|            | 2161-7(224)  |          | 2161-51(224) |
|            | 2161-10(224) |          | 2161-52(224) |
|            | 2161-11(224) |          | 2161-53(224) |
|            | 2161-12(224) |          | 2161-61(224) |
|            | 2161-13(224) |          | 2161-62(224) |
|            | 2161-14(224) |          | 2161-63(224) |
|            | 2161-15(224) |          | 2161-64(224) |
|            | 2161-16(224) |          | 2161-65(224) |
|            | 2161-18(224) |          | 2161-66(224) |
|            | 2161-19(224) |          | 2161-67(224) |
|            | 2161-20(224) |          | 2161-68(224) |
|            | 2161-21(224) |          | 2161-69(224) |
|            | 2161-22(224) |          | 2161-70(224) |
|            | 2161-23(224) |          | 2161-71(224) |
|            | 2161-24(224) |          | 2161-89(224) |
|            | 2161-26(224) |          | 2161-91(224) |
|            | 2161-28(224) |          | 2161-92(224) |
|            | 2161-30(224) |          | 2161-93(224) |
|            | 2161-35(224) |          | 2161-94(224) |
|            | 2161-36(224) |          | 2161-96(224) |
| 008501371  | 2161-37(224) |          | 2161-99(224) |
|            |              |          |              |
|            |              |          |              |

| TIN      |              |           |              |
|----------|--------------|-----------|--------------|
| PART NO: | ENG NO:      | PART NO:  | ENG NO:      |
|          | 2161-1(124)  |           | 2161-38(124) |
|          | 2161-3(124)  |           | 2161-40(124) |
|          | 2161-4(124)  |           | 2161-41(124) |
|          | 2161-5(124)  |           | 2161-45(124) |
|          | 2161-6(124)  |           | 2161-48(124) |
|          | 2161-7(124)  |           | 2161-51(124) |
|          | 2161-10(124) |           | 2161-52(124) |
|          | 2161-11(124) |           | 2161-53(124) |
|          | 2161-12(124) |           | 2161-61(124) |
|          | 2161-13(124) |           | 2161-62(124) |
|          | 2161-14(124) |           | 2161-63(124) |
|          | 2161-15(124) |           | 2161-64(124) |
|          | 2161-16(124) |           | 2161-65(124) |
|          | 2161-18(124) |           | 2161-66(124) |
|          | 2161-19(124) |           | 2161-67(124) |
|          | 2161-20(124) |           | 2161-68(124) |
|          | 2161-21(124) |           | 2161-69(124) |
|          | 2161-22(124) |           | 2161-70(124) |
|          | 2161-23(124) |           | 2161-71(124) |
|          | 2161-24(124) |           | 2161-89(124) |
|          | 2161-26(124) |           | 2161-91(124) |
|          | 2161-28(124) |           | 2161-92(124) |
|          | 2161-30(124) |           | 2161-93(124) |
|          | 2161-35(124) | 008501001 | 2161-94(124) |
|          | 2161-36(124) |           | 2161-96(124) |
|          | 2161-37(124) |           | 2161-99(124) |
|          |              |           |              |
|          |              |           |              |

|                                                  |                             |                                              |                                              |                                   |
|--------------------------------------------------|-----------------------------|----------------------------------------------|----------------------------------------------|-----------------------------------|
| REV:<br><br>AH2                                  | <u>ECR/ECN INFORMATION:</u> |                                              | <u>TITLE:</u><br><br>KK .045 SQ PIN<br>LOOSE | <u>SHEET No.</u><br><br>- 6 -     |
|                                                  | <u>EC No.:</u> UCP2008-3117 |                                              |                                              |                                   |
|                                                  | <u>DATE:</u> 7/1/2008       |                                              |                                              |                                   |
| <u>DOCUMENT NUMBER:</u><br><br>SD- 2161-001      |                             | <u>CREATED / REVISED BY:</u><br><br>GAVERILL | <u>CHECKED BY:</u><br><br>AELHAG             | <u>APPROVED BY:</u><br><br>FSMITH |
| TEMPLATE FILENAME: PRODUCT_SPEC[SIZE_A](V.1).DOC |                             |                                              |                                              |                                   |

| TIN        |              |  |            |              |
|------------|--------------|--|------------|--------------|
| PART NO:   | ENG NO:      |  | PART NO:   | ENG NO:      |
| 50-29-1776 | 2161-01(154) |  | 50-29-1802 | 2161-38(154) |
| 50-29-1777 | 2161-03(154) |  | 50-29-1803 | 2161-40(154) |
| 50-29-1778 | 2161-04(154) |  | 50-29-1804 | 2161-41(154) |
| 50-29-1779 | 2161-05(154) |  | 50-29-1805 | 2161-45(154) |
| 50-29-1780 | 2161-06(154) |  | 50-29-1806 | 2161-48(154) |
| 50-29-1781 | 2161-07(154) |  | 50-29-1807 | 2161-51(154) |
| 50-29-1782 | 2161-10(154) |  | 50-29-1808 | 2161-52(154) |
| 50-29-1783 | 2161-11(154) |  | 50-29-1809 | 2161-53(154) |
| 50-29-1784 | 2161-12(154) |  | 50-29-1810 | 2161-61(154) |
| 50-29-1785 | 2161-13(154) |  | 50-29-1811 | 2161-62(154) |
| 50-29-1786 | 2161-14(154) |  | 50-29-1812 | 2161-63(154) |
| 50-29-1787 | 2161-15(154) |  | 50-29-1813 | 2161-64(154) |
| 50-29-1788 | 2161-16(154) |  | 50-29-1814 | 2161-65(154) |
| 50-29-1789 | 2161-18(154) |  | 50-29-1815 | 2161-66(154) |
| 50-29-1790 | 2161-19(154) |  | 50-29-1816 | 2161-67(154) |
| 50-29-1791 | 2161-20(154) |  | 50-29-1817 | 2161-68(154) |
| 50-29-1792 | 2161-21(154) |  | 50-29-1818 | 2161-69(154) |
| 50-29-1793 | 2161-22(154) |  | 50-29-1819 | 2161-70(154) |
| 50-29-1794 | 2161-23(154) |  | 50-29-1820 | 2161-71(154) |
| 50-29-1795 | 2161-24(154) |  | 50-29-1821 | 2161-89(154) |
| 50-29-1796 | 2161-26(154) |  | 50-36-1724 | 2161-90(154) |
| 50-29-1797 | 2161-28(154) |  | 50-29-1822 | 2161-91(154) |
| 50-29-1798 | 2161-30(154) |  | 50-29-1823 | 2161-92(154) |
| 50-29-1799 | 2161-35(154) |  | 50-29-1824 | 2161-93(154) |
| 50-29-1800 | 2161-36(154) |  | 50-29-1825 | 2161-94(154) |
| 50-29-1801 | 2161-37(154) |  | 50-29-1826 | 2161-96(154) |
|            |              |  | 50-29-1827 | 2161-99(154) |
|            |              |  |            |              |

[illegible]

|                                                  |                             |                                              |                                              |                                   |
|--------------------------------------------------|-----------------------------|----------------------------------------------|----------------------------------------------|-----------------------------------|
| REV:<br><br>AH2                                  | <u>ECR/ECN INFORMATION:</u> |                                              | <u>TITLE:</u><br><br>KK .045 SQ PIN<br>LOOSE | <u>SHEET No.</u><br><br>- 7 -     |
|                                                  | <u>EC No.:</u>              | UCP2008-3117                                 |                                              |                                   |
|                                                  | <u>DATE:</u>                | 7/1/2008                                     |                                              |                                   |
| <u>DOCUMENT NUMBER:</u><br><br>SD- 2161-001      |                             | <u>CREATED / REVISED BY:</u><br><br>GAVERILL | <u>CHECKED BY:</u><br><br>AELHAG             | <u>APPROVED BY:</u><br><br>FSMITH |
| TEMPLATE FILENAME: PRODUCT_SPEC\SIZE_A\K.V.1.DOC |                             |                                              |                                              |                                   |