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**Part Number:** [0026481102](#)  
**Status:** **Active**  
**Description:** 3.96mm (.156") Pitch KK® Header, Breakaway, Right Angle, 10 Circuits, Tin (Sn) Plating

**Documents:**

|                                               |                                                      |
|-----------------------------------------------|------------------------------------------------------|
| <a href="#">3D Model</a>                      | <a href="#">Product Specification PS-08-50 (PDF)</a> |
| <a href="#">Drawing (PDF)</a>                 | <a href="#">RoHS Certificate of Compliance (PDF)</a> |
| <a href="#">Packaging Specification (PDF)</a> |                                                      |

**Agency Certification**

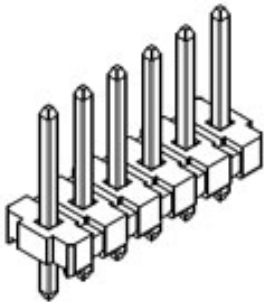
|     |         |
|-----|---------|
| CSA | LR19980 |
| UL  | E29179  |

**General**

|                |                               |
|----------------|-------------------------------|
| Product Family | PCB Headers                   |
| Series         | <a href="#">41662</a>         |
| Application    | Board-to-Board, Wire-to-Board |
| MolexKits      | Yes                           |
| Product Name   | KK®                           |

**Physical**

|                                |             |
|--------------------------------|-------------|
| Breakaway                      | Yes         |
| Circuits (Loaded)              | 10          |
| Circuits (maximum)             | 10          |
| Color - Resin                  | Black       |
| Durability (mating cycles max) | 25          |
| First Mate / Last Break        | No          |
| Flammability                   | 94V-0       |
| Glow-Wire Compliant            | No          |
| Guide to Mating Part           | No          |
| Keying to Mating Part          | None        |
| Lock to Mating Part            | None        |
| Material - Metal               | Brass       |
| Material - Plating Mating      | Tin         |
| Material - Plating Termination | Tin         |
| Material - Resin               | Polyester   |
| Number of Rows                 | 1           |
| Orientation                    | Right Angle |
| PC Tail Length (in)            | 0.184 In    |
| PC Tail Length (mm)            | 4.67 mm     |
| PCB Locator                    | No          |
| PCB Retention                  | None        |
| PCB Thickness Recommended (in) | 0.062 In    |
| PCB Thickness Recommended (mm) | 1.60 mm     |
| Packaging Type                 | Bag         |
| Pitch - Mating Interface (in)  | 0.156 In    |
| Pitch - Mating Interface (mm)  | 3.96 mm     |
| Plating min: Mating (µin)      | 200         |
| Plating min: Mating (µm)       | 5           |
| Plating min: Termination (µin) | 200         |
| Plating min: Termination (µm)  | 5           |
| Polarized to Mating Part       | Yes         |
| Polarized to PCB               | No          |
| Shrouded                       | Partial     |
| Stackable                      | No          |



Series

image - Reference only

**EU RoHS**

**ELV and RoHS  
Compliant**  
**REACH SVHC**  
**Contains SVHC: No**  
**Halogen-Free**  
**Status**

**China RoHS**



**Need more information on product  
environmental compliance?**

Email [productcompliance@molex.com](mailto:productcompliance@molex.com)  
For a multiple part number RoHS Certificate of  
Compliance, [click here](#)

Please visit the [Contact Us](#) section for any  
non-product compliance questions.

**Search Parts in this Series**

[41662Series](#)

**Mates With**

[2139](#) , [2145](#) , [6442](#) , [7674](#) , [7675](#) , [41695](#) ,  
[41815](#)

|                                                |                        |
|------------------------------------------------|------------------------|
| Temperature Range - Operating                  | 0°C to +75°C           |
| Termination Interface: Style                   | Through Hole           |
| <b>Electrical</b>                              |                        |
| Current - Maximum per Contact                  | 7A                     |
| Voltage - Maximum                              | 250V                   |
| <b>Solder Process Data</b>                     |                        |
| Duration at Max. Process Temperature (seconds) | 5                      |
| Lead-free Process Capability                   | Wave Capable (TH only) |
| Max. Cycles at Max. Process Temperature        | 1                      |
| Process Temperature max. C                     | 235                    |
| <b>Material Info</b>                           |                        |
| Old Part Number                                | A-41662-A10A102        |
| <b>Reference - Drawing Numbers</b>             |                        |
| Packaging Specification                        | PK-41662-001           |
| Product Specification                          | PS-08-50               |
| Sales Drawing                                  | SD-41662-001           |

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A-41662-\* N \* - \*

PACKAGING AND OPTIONS

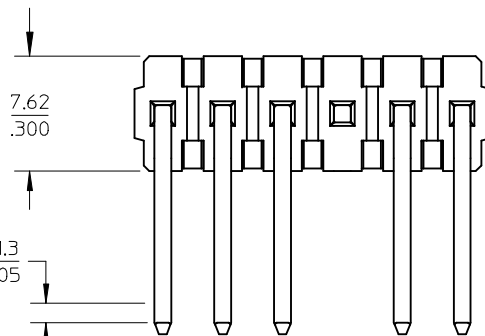
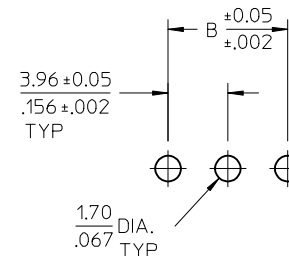
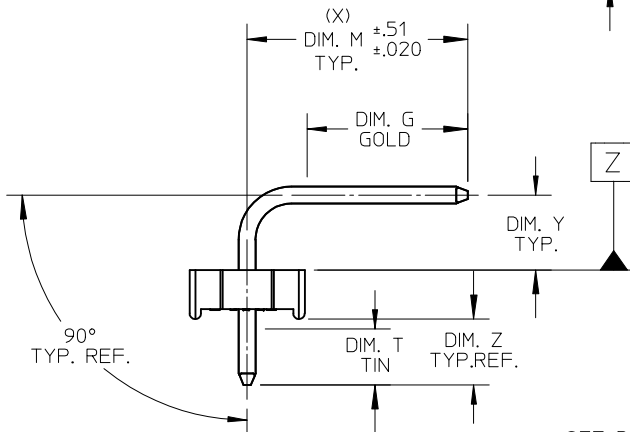
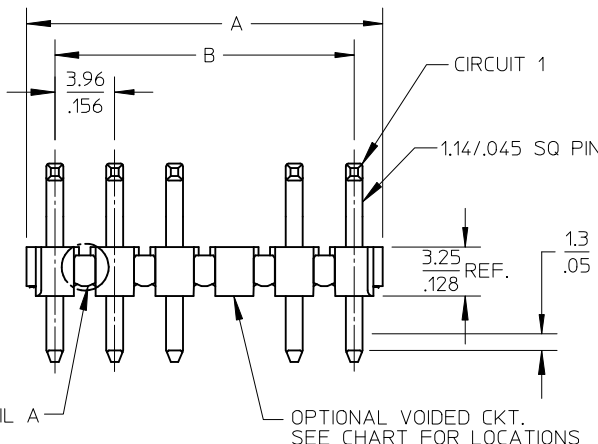
NO. OF CKTS.

PIN DIMENSIONS

PLATING

VOID LOCATIONS:  
BLANK = NO VOIDS  
NO.= CKT NO. VOIDED  
MULT. VOIDS START  
WITH 51

CENTERLINE OF PIN IN AREA SHOWN  
NOT TO VARY FROM CENTERLINE OF  
PIN AT DATUM Z BY MORE THAN  
0.20/.008 IN ANY DIRECTION.



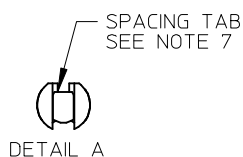
NOTES:

1. MATERIAL: GLASS FILLED POLYESTER, 94V-0, MOLDED BLACK
2. FINISH: PER SDES-88
  - (102) OVERALL TIN: 0.00508/.000200 MIN.
  - OVERALL COPPER UNDERPLATE: 0.00254/.000100 MIN.
  - (154) OVERALL TIN: 0.00254/.000100 MIN.
  - OVERALL NICKEL UNDERPLATE: 0.00127/.000050 MIN.
  - (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.
  - (501) OVERALL GOLD: 0.00051/.000020 MIN.
  - OVERALL NICKEL UNDERPLATE: 0.00076/.000030 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. THE PRIMARY SHIPPING CARTON WILL BE LABELED, "COMPLIANT TO RoHS DIRECTIVE 2002/95/EC AND ELV ANNEX II OF DIRECTIVE 2000/53/EC". CARTONS WITHOUT THIS LABEL MAY CONTAIN PRODUCT WITH TIN-LEAD PLATING.
9. THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.

| CIRCUIT | B              | A                          |
|---------|----------------|----------------------------|
| 2       | 3.96<br>.156   | 6.78/7.87<br>.267/1.310    |
| 3       | 7.92<br>.312   | 10.74/11.84<br>.423/1.466  |
| 4       | 11.89<br>.468  | 14.71/15.80<br>.579/1.622  |
| 5       | 15.85<br>.624  | 18.67/19.76<br>.735/1.778  |
| 6       | 19.81<br>.780  | 22.63/23.72<br>.891/1.934  |
| 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 |

|      |      |
|------|------|
| 2-*  | AH7  |
| 1    | REV. |
| SHT. | REV. |



|                                                                                          |             |            |            |
|------------------------------------------------------------------------------------------|-------------|------------|------------|
| REMOVE 41662-0684<br>EC NO: UCP2010-0149<br>DRWN:MKLIPPER<br>CHKD:SSOUSEK<br>APPR:FSM TH | 2009/08/05  | 2009/08/10 | 2009/08/11 |
|                                                                                          | DESCRIPTION | REV        | REV        |
| AH7                                                                                      |             |            |            |

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

| DIMENSION STYLE |                                                                                                                               |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------|
| MM/IN           |                                                                                                                               |
| DRAWN BY        | DATE                                                                                                                          |
| JSCHAFFER       | 2003/09/15                                                                                                                    |
| CHECKED BY      | DATE                                                                                                                          |
| KSAMIEC         | 2003/09/15                                                                                                                    |
| APPROVED BY     | DATE                                                                                                                          |
| MARGULIS        | 2003/09/15                                                                                                                    |
| MATERIAL NO.    |                                                                                                                               |
| SEE CHART       |                                                                                                                               |
| SIZE            | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |
| A               |                                                                                                                               |

| THIRD ANGLE PROJECTION |  | SHEET NO. |  |
|------------------------|--|-----------|--|
| 1 OF 12                |  | 1 OF 12   |  |