

PLEASE CHECK WWW.MOLEX.COM FOR LATEST PART INFORMATION

Part Number: [0417720469](#)
Status: **Active**
Description: 3.96mm (.156") Pitch KK® Solid Header, Right Angle, without Peg, 8 Circuits, 0.38µm (15µ") Gold (Au) Selective Plating

Documents:

| | |
|---|--|
| 3D Model | Product Specification PS-08-50 (PDF) |
| Packaging Specification (PDF) | RoHS Certificate of Compliance (PDF) |
| Drawing (PDF) | |

Agency Certification

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

General

| | |
|----------------|-------------------------------|
| Product Family | PCB Headers |
| Series | 41772 |
| Application | Board-to-Board, Wire-to-Board |
| Product Name | KK® |

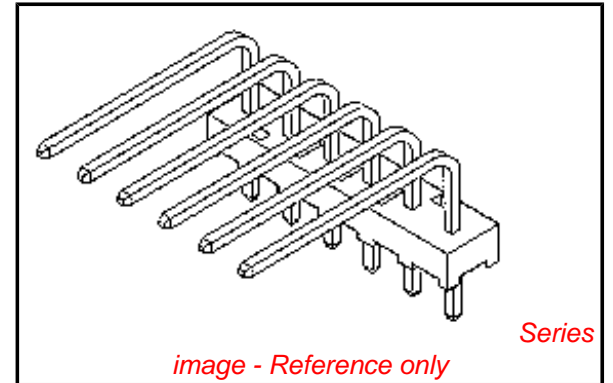
Physical

| | |
|--------------------------------|--------------|
| Breakaway | No |
| Circuits (Loaded) | 8 |
| Circuits (maximum) | 8 |
| Color - Resin | Natural |
| Durability (mating cycles max) | 100 |
| Flammability | 94V-0 |
| Glow-Wire Compliant | No |
| Lock to Mating Part | None |
| Material - Metal | Brass |
| Material - Plating Mating | Gold |
| Material - Resin | Polyester |
| Number of Rows | 1 |
| Orientation | Right Angle |
| PC Tail Length (in) | 0.140 In |
| PC Tail Length (mm) | 3.56 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) | 15 |
| Plating min: Mating (µm) | 0.38 |
| Polarized to Mating Part | Yes |
| Polarized to PCB | No |
| Shrouded | Partial |
| Stackable | Yes |
| Temperature Range - Operating | 0°C to +75°C |
| Termination Interface: Style | Through Hole |

Electrical

| | |
|-------------------------------|------|
| Current - Maximum per Contact | 7A |
| Voltage - Maximum | 250V |

Solder Process Data



EU RoHS

ELV and RoHS Compliant
REACH SVHC
 Not Reviewed
Halogen-Free Status
 Not Reviewed

China RoHS



Need more information on product environmental compliance?

Email 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

[41772Series](#)

Mates With

[3069](#) , [2139](#) , [2145](#) , [6442](#) , [7674](#) , [7675](#) , [41695](#) , L ink:41815

| | |
|--|------------------------|
| 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 |

Material Info

Reference - Drawing Numbers

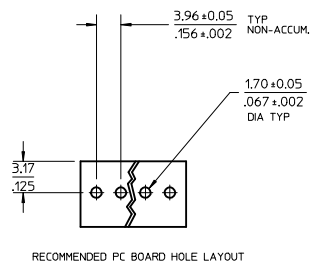
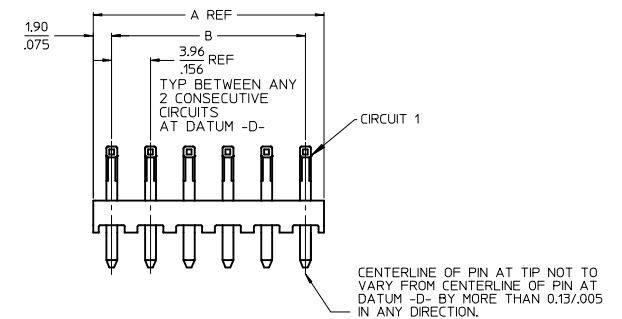
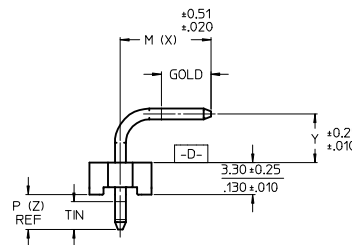
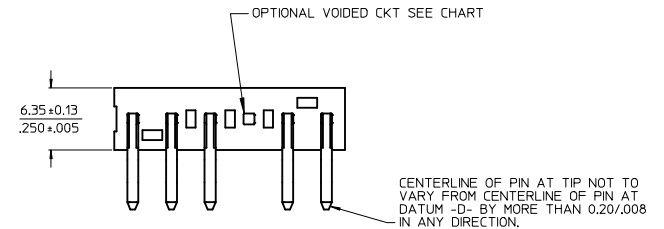
| | |
|-----------------------|-----------|
| Product Specification | PS-08-50 |
| Sales Drawing | SDA-41772 |

This document was generated on 04/19/2010

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| CKT | DIM. A | DIM. B |
|-----|----------------|--------------------------|
| 2 | 7.77 .306 | 3.96±0.05 .156±.002 |
| 3 | 11.73 .462 | 7.92±0.08 .312±.003 |
| 4 | 15.70 .618 | 11.89±0.08 .468±.003 |
| 5 | 19.66 .774 | 15.85±0.10 .624±.004 |
| 6 | 23.62 .930 | 19.81±0.10 .780±.004 |
| 7 | 27.58 1.086 | 23.77±0.10 .936±.004 |
| 8 | 31.55 1.242 | 27.74±0.13 1.092±.005 |
| 9 | 35.51 1.398 | 31.70±0.15 1.248±.005 |
| 10 | 39.47 1.554 | 35.66±0.13 1.404±.005 |
| 11 | 43.43 1.710 | 39.62±0.15 1.560±.006 |
| 12 | 47.40 1.866 | 43.59±0.15 1.716±.006 |
| 13 | 51.36 2.022 | 47.55±0.15 1.872±.006 |
| 14 | 55.32 2.178 | 51.51±0.18 2.028±.007 |
| 15 | 59.28 2.334 | 55.47±0.18 2.184±.007 |
| 16 | 63.25 2.490 | 59.44±0.18 2.340±.007 |
| 17 | 67.21 2.646 | 63.40±0.20 2.496±.008 |
| 18 | 71.17 2.802 | 67.36±0.20 2.652±.008 |

- NOTES:
- MATERIAL: HEADER-GLASS FILLED POLYESTER, 94V-0, MOLDED NATURAL (WHITE).
 - FINISH: (102) OVERALL TIN: 0.00508/.000200 MIN OVER 0.00254/.000100 MIN COPPER.
(154) OVERALL TIN: 0.00254/.000100 MIN OVER 0.00127/.000050 MIN NICKEL,
*(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 OVER 0.00076/.000030 MIN NICKEL.
(503) OVERALL GOLD: 0.00076/.000030 MIN OVER 0.00127/.000050 MIN NICKEL.
 - *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.
 - PRODUCT SPECIFICATION AND PROCESS PARAMETERS: SEE PS-08-50.
 - PACKAGING: SEE CHART
 - SOLDERABILITY: PER SMES-152.
 - PIN PUSH-OUT FORCE: PRIOR TO SOLDERING, A 3 LB. MINIMUM FORCE (IN EITHER DIRECTION)
 - PARTS ARE STACKABLE END TO END ON 3.96/.156 CENTERS.
 - THIS PART CONFORMS TO CLASS B REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.



| | |
|-------|-----|
| 2-x | L6 |
| 1 | L6 |
| SHEET | REV |

ADD 41772-0663
 EC NO: UCP2010-0165
 DRAWN:MKLIPPER 2009/08/10
 CHKD:JBELL 2009/08/11
 APPR:FSMITH 2009/08/14

QUALITY SYMBOLS
 ▽=0
 ▽=0

| | 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 | |
|-----------------|--------------|
| MM/IN | SCALE |
| DRAWN BY | DATE |
| SCHAFFER | 11-19-03 |
| CHECKED BY | DATE |
| SAMIEC | 11-21-03 |
| APPROVED BY | DATE |
| MARGULIS | 11-25-03 |
| MATERIAL NO. | DOCUMENT NO. |
| SEE CHART | SDA-41772 |

THIRD ANGLE PROJECTION

SCALE 2:1

DESIGN UNITS INCH

TITLE
**KK 156 HEADER ASSEMBLY
 FLAT RIGHT ANGLE
 SOLID BODY W/O PEGS**

MOLEX INCORPORATED

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

SHEET NO. 1 OF *

| | | | | | | | | |
|---------|--------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------|
| OPTIONS | Group | A-41772-0002/0018 | Group | A-41772-0463/0479 | Group | A-41772-0480/0496 | Group | A-41772-0036/0052 |
| | Header No: | 41770-0002/0018 | Header No: | 41770-0002/0018 | Header No: | 41770-0002/0018 | Header No: | 41770-0002/0018 |
| | Pin No: | 2161-16(102) | Pin No: | 43294-0470 | Pin No: | 43294-0471 | Pin No: | 2161-52(102) |
| | Plating: | 102 – TIN | Plating: | 208 - 15 GOLD | Plating: | 228 - 30 GOLD | Plating: | 102 – TIN |
| | Pin Length L | 25.40 / 1.000 | Pin Length L | 25.40 / 1.000 | Pin Length L | 25.40 / 1.000 | Pin Length L | 27.00 / 1.063 |
| | Mating M | 14.86 / .585 | Mating M | 14.86 / .585 | Mating M | 14.86 / .585 | Mating M | 16.51 / .650 |
| | Gold Loc G | N/A | Gold Loc G | 7.11/ .280 | Gold Loc G | 7.11/ .280 | Gold Loc G | N/A |
| | Height Y | 4.95 / .195 | Height Y | 4.95 / .195 | Height Y | 4.95 / .195 | Height Y | 4.95 / .195 |
| | PC Tail P | 3.56 / .140 | PC Tail P | 3.56 / .140 | PC Tail P | 3.56 / .140 | PC Tail P | 3.51 / .138 |
| | Tin Loc T | OVERALL | Tin Loc T | 4.06/ .160 | Tin Loc T | 4.06/ .160 | Tin Loc T | OVERALL |
| | Voided Ckts | NONE | Voided Ckts | NONE | Voided Ckts | NONE | Voided Ckts | NONE |
| | Pack Per | PK-41772-002 | Pack Per | PK-41772-002 | Pack Per | PK-41772-002 | Pack Per | PK-41772-002 |
| Ckts | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number |
| 2 | 26-60-3020 | A-41772-0002 | 41772-0463 | A-41772-0463 | 41772-0480 | A-41772-0480 | 26-60-3021 | A-41772-0036 |
| 3 | 26-60-3030 | A-41772-0003 | 41772-0464 | A-41772-0464 | 41772-0481 | A-41772-0481 | 26-60-3031 | A-41772-0037 |
| 4 | 26-60-3040 | A-41772-0004 | 41772-0465 | A-41772-0465 | 41772-0482 | A-41772-0482 | 26-60-3041 | A-41772-0038 |
| 5 | 26-60-3050 | A-41772-0005 | 41772-0466 | A-41772-0466 | 41772-0483 | A-41772-0483 | 26-60-3051 | A-41772-0039 |
| 6 | 26-60-3060 | A-41772-0006 | 41772-0467 | A-41772-0467 | 41772-0484 | A-41772-0484 | 26-60-3061 | A-41772-0040 |
| 7 | 26-60-3070 | A-41772-0007 | 41772-0468 | A-41772-0468 | 41772-0485 | A-41772-0485 | 26-60-3071 | A-41772-0041 |
| 8 | 26-60-3080 | A-41772-0008 | 41772-0469 | A-41772-0469 | 41772-0486 | A-41772-0486 | 26-60-3081 | A-41772-0042 |
| 9 | 26-60-3090 | A-41772-0009 | 41772-0470 | A-41772-0470 | 41772-0487 | A-41772-0487 | 26-60-3091 | A-41772-0043 |
| 10 | 26-60-3100 | A-41772-0010 | 41772-0471 | A-41772-0471 | 41772-0488 | A-41772-0488 | 26-60-3101 | A-41772-0044 |
| 11 | 26-60-3110 | A-41772-0011 | 41772-0472 | A-41772-0472 | 41772-0489 | A-41772-0489 | 26-60-3111 | A-41772-0045 |
| 12 | 26-60-3120 | A-41772-0012 | 41772-0473 | A-41772-0473 | 41772-0490 | A-41772-0490 | 26-60-3121 | A-41772-0046 |
| 13 | 26-60-3130 | A-41772-0013 | 41772-0474 | A-41772-0474 | 41772-0491 | A-41772-0491 | 26-60-3131 | A-41772-0047 |
| 14 | 26-60-3140 | A-41772-0014 | 41772-0475 | A-41772-0475 | 41772-0492 | A-41772-0492 | 26-60-3141 | A-41772-0048 |
| 15 | 26-60-3150 | A-41772-0015 | 41772-0476 | A-41772-0476 | 41772-0493 | A-41772-0493 | 26-60-3151 | A-41772-0049 |
| 16 | 26-60-3160 | A-41772-0016 | 41772-0477 | A-41772-0477 | 41772-0494 | A-41772-0494 | 26-60-3161 | A-41772-0050 |
| 17 | 26-60-3170 | A-41772-0017 | 41772-0478 | A-41772-0478 | 41772-0495 | A-41772-0495 | 26-60-3171 | A-41772-0051 |
| 18 | 26-60-3180 | A-41772-0018 | 41772-0479 | A-41772-0479 | 41772-0496 | A-41772-0496 | 26-60-3181 | A-41772-0052 |

| | | | |
|-------------------------|------------------------------|--|---------------------|
| REV: | <u>ECR/ECN INFORMATION:</u> | <u>TITLE:</u> | <u>SHEET No.</u> |
| L6 | EC No.: UCP2010-0165 | KK 156 HEADER ASSEMBLY FLAT RIGHT ANGLE SOLID BODY W/O PEGS | - 2 - |
| | DATE: 8/24/2009 | | |
| <u>DOCUMENT NUMBER:</u> | <u>CREATED / REVISED BY:</u> | <u>CHECKED BY:</u> | <u>APPROVED BY:</u> |
| SDA- 41772 | MKIPPER | JBELL | FSMITH |

| OPTIONS | Group | A-41772-0497/0513 | Group | A-41772-0514/0530 | Group | A-41772-0019/0035 | Group | A-41772-0070/0086 |
|---------|--------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|
| | Header No: | 41770-0002/0018 | Header No: | 41770-0002/0018 | Header No: | 41770-0002/0018 | Header No: | 41770-0002/0018 |
| | Pin No: | 43294-0524 | Pin No: | 43294-0525 | Pin No: | 2161-16(501) | Pin No: | 2161-21(102) |
| | Plating: | 208 – 15 GOLD | Plating: | 228 – 30 GOLD | Plating: | 501 – GOLD | Plating: | 102-TIN |
| | Pin Length L | 26.92/ 1.060 | Pin Length L | 26.92/ 1.060 | Pin Length L | 25.40/ 1.000 | Pin Length L | 28.58 / 1.125 |
| | Mating M | 16.51 / .650 | Mating M | 16.51 / .650 | Mating M | 14.86 / .585 | Mating M | 17.60/ .693 |
| | Gold Loc G | 8.77/ .345 | Gold Loc G | 8.77/ .345 | Gold Loc G | OVERALL | Gold Loc G | N/A |
| | Height Y | 4.95 / .195 | Height Y | 4.95 / .195 | Height Y | 4.95 / .195 | Height Y | 4.98/ .196 |
| | PC Tail P | 3.43 / .135 | PC Tail P | 3.43 / .135 | PC Tail P | 3.56 / .140 | PC Tail P | 3.96/ .156 |
| | Tin Loc T | 5.08/ .200 | Tin Loc T | 5.08/ .200 | Tin Loc T | N/A | Tin Loc T | OVERALL |
| | Voided Ckts | NONE | Voided Ckts | NONE | Voided Ckts | NONE | Voided Ckts | NONE |
| | Pack Per | PK-41772-002 | Pack Per | PK-41772-002 | Pack Per | PK-41772-002 | Pack Per | PK-41772-002 |
| | Ckts | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number | Material No |
| 2 | 41772-0497 | A-41772-0497 | 41772-0514 | A-41772-0514 | 26-61-3020 | A-41772-0019 | 26-60-3026 | A-41772-0070 |
| 3 | 41772-0498 | A-41772-0498 | 41772-0515 | A-41772-0515 | 26-61-3030 | A-41772-0020 | 26-60-3036 | A-41772-0071 |
| 4 | 41772-0499 | A-41772-0499 | 41772-0516 | A-41772-0516 | 26-61-3040 | A-41772-0021 | 26-60-3046 | A-41772-0072 |
| 5 | 41772-0500 | A-41772-0500 | 41772-0517 | A-41772-0517 | 26-61-3050 | A-41772-0022 | 26-60-3056 | A-41772-0073 |
| 6 | 41772-0501 | A-41772-0501 | 41772-0518 | A-41772-0518 | 26-61-3060 | A-41772-0023 | 26-60-3066 | A-41772-0074 |
| 7 | 41772-0502 | A-41772-0502 | 41772-0519 | A-41772-0519 | 26-61-3070 | A-41772-0024 | 26-60-3076 | A-41772-0075 |
| 8 | 41772-0503 | A-41772-0503 | 41772-0520 | A-41772-0520 | 26-61-3080 | A-41772-0025 | 26-60-3086 | A-41772-0076 |
| 9 | 41772-0504 | A-41772-0504 | 41772-0521 | A-41772-0521 | 26-61-3090 | A-41772-0026 | 26-60-3096 | A-41772-0077 |
| 10 | 41772-0505 | A-41772-0505 | 41772-0522 | A-41772-0522 | 26-61-3100 | A-41772-0027 | 26-60-3106 | A-41772-0078 |
| 11 | 41772-0506 | A-41772-0506 | 41772-0523 | A-41772-0523 | 26-61-3110 | A-41772-0028 | 26-60-3116 | A-41772-0079 |
| 12 | 41772-0507 | A-41772-0507 | 41772-0524 | A-41772-0524 | 26-61-3120 | A-41772-0029 | 26-60-3126 | A-41772-0080 |
| 13 | 41772-0508 | A-41772-0508 | 41772-0525 | A-41772-0525 | 26-61-3130 | A-41772-0030 | 26-60-3136 | A-41772-0081 |
| 14 | 41772-0509 | A-41772-0509 | 41772-0526 | A-41772-0526 | 26-61-3140 | A-41772-0031 | 26-60-3146 | A-41772-0082 |
| 15 | 41772-0510 | A-41772-0510 | 41772-0527 | A-41772-0527 | 26-61-3150 | A-41772-0032 | 26-60-3156 | A-41772-0083 |
| 16 | 41772-0511 | A-41772-0511 | 41772-0528 | A-41772-0528 | 26-61-3160 | A-41772-0033 | 26-60-3166 | A-41772-0084 |
| 17 | 41772-0512 | A-41772-0512 | 41772-0529 | A-41772-0529 | 26-61-3170 | A-41772-0034 | 26-60-3176 | A-41772-0085 |
| 18 | 41772-0513 | A-41772-0513 | 41772-0530 | A-41772-0530 | 26-61-3180 | A-41772-0035 | 26-60-3186 | A-41772-0086 |

| | | | |
|-------------------------|------------------------------|--|---------------------|
| REV: | <u>ECR/ECN INFORMATION:</u> | <u>TITLE:</u> | <u>SHEET No.</u> |
| L6 | EC No.: UCP2010-0165 | KK 156 HEADER ASSEMBLY FLAT RIGHT ANGLE SOLID BODY W/O PEGS | - 3 - |
| | DATE: 8/24/2009 | | |
| <u>DOCUMENT NUMBER:</u> | <u>CREATED / REVISED BY:</u> | <u>CHECKED BY:</u> | <u>APPROVED BY:</u> |
| SDA- 41772 | MKIPPER | JBELL | FSMITH |

| | | | | | | | | |
|---------|--------------|-------------------|--------------|-----------------|--------------|-----------------|--------------|-------------------|
| OPTIONS | Group | A-41772-0155/0171 | Group | | Group | | Group | A-41772-0206/0222 |
| | Header No: | 41770-0002/0018 | Header No: | | Header No: | | Header No: | 41770-0002/0018 |
| | Pin No: | 2161-16(102) | Pin No: | | Pin No: | | Pin No: | 2161-19(102) |
| | Plating: | 102-TIN | Plating: | | Plating: | | Plating: | 102-TIN |
| | Pin Length L | 25.40/ 1.000 | Pin Length L | | Pin Length L | | Pin Length L | 26.13/ 1.032 |
| | Mating M | 14.86/ .585 | Mating M | | Mating M | | Mating M | 14.86/ .585 |
| | Gold Loc G | N/A | Gold Loc G | | Gold Loc G | | Gold Loc G | N/A |
| | Height Y | 4.95/ .195 | Height Y | | Height Y | | Height Y | 4.95/ .195 |
| | PC Tail P | 3.56/ .140 | PC Tail P | | PC Tail P | | PC Tail P | 4.37/ .172 |
| | Tin Loc T | OVERALL | Tin Loc T | | Tin Loc T | | Tin Loc T | OVERALL |
| | Voided Ckts | CKT 2 | Voided Ckts | | Voided Ckts | | Voided Ckts | NONE |
| | Pack Per | PK-41772-002 | Pack Per | | Pack Per | | Pack Per | PK-41772-002 |
| Ckts | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number |
| 2 | 26-62-3024 | A-41772-0155 | | | | | | A-41772-0206 |
| 3 | 26-62-3034 | A-41772-0156 | | | | | | A-41772-0207 |
| 4 | 26-62-3044 | A-41772-0157 | | | | | | A-41772-0208 |
| 5 | 26-62-3054 | A-41772-0158 | | | | | | A-41772-0209 |
| 6 | 26-62-3064 | A-41772-0159 | | | | | | A-41772-0210 |
| 7 | 26-62-3074 | A-41772-0160 | | | | | | A-41772-0211 |
| 8 | 26-62-3084 | A-41772-0161 | | | | | 26-60-3082 | A-41772-0212 |
| 9 | 26-62-3094 | A-41772-0162 | | | | | | A-41772-0213 |
| 10 | 26-62-3104 | A-41772-0163 | | | | | | A-41772-0214 |
| 11 | 26-62-3114 | A-41772-0164 | | | | | | A-41772-0215 |
| 12 | 26-62-3124 | A-41772-0165 | | | | | 26-60-3122 | A-41772-0216 |
| 13 | 26-62-3134 | A-41772-0166 | | | | | | A-41772-0217 |
| 14 | 26-62-3144 | A-41772-0167 | | | | | 26-60-3142 | A-41772-0218 |
| 15 | 26-62-3154 | A-41772-0168 | | | | | | A-41772-0219 |
| 16 | 26-62-3164 | A-41772-0169 | | | | | | A-41772-0220 |
| 17 | 26-62-3174 | A-41772-0170 | | | | | | A-41772-0221 |
| 18 | 26-62-3184 | A-41772-0171 | | | | | | A-41772-0222 |

| | | | |
|-------------------------|------------------------------|--|---------------------|
| REV: | <u>ECR/ECN INFORMATION:</u> | <u>TITLE:</u> | <u>SHEET No.</u> |
| L6 | EC No.: UCP2010-0165 | KK 156 HEADER ASSEMBLY FLAT RIGHT ANGLE SOLID BODY W/O PEGS | - 4 - |
| | DATE: 8/24/2009 | | |
| <u>DOCUMENT NUMBER:</u> | <u>CREATED / REVISED BY:</u> | <u>CHECKED BY:</u> | <u>APPROVED BY:</u> |
| SDA- 41772 | MKIPPER | JBELL | FSMITH |

| | | | | | | | | |
|---------|--------------------|-------------------|--------------------|--------------------|--------------|-------------------|--------------|-------------------|
| OPTIONS | Group | A-41772-0291/0307 | Group | A-41772-0308/ 0324 | Group | A-41772-0325/0340 | Group | A-41772-0341/0352 |
| | Header No: | 41770-0002/0018 | Header No: | 41770-0002/0018 | Header No: | 41770-0003/0018 | Header No: | 41770-0007/0018 |
| | Pin No: | 2161-62(102) | Pin No: | 2161-75(102) | Pin No: | 2161-16(102) | Pin No: | 2161-16(102) |
| | Plating: | 102-TIN | Plating: | 102-TIN | Plating: | 102-TIN | Plating: | 102-TIN |
| | Pin Length L | 24.89/ .980 | Pin Length L | 16.94/ .667 | Pin Length L | 25.40/ 1.000 | Pin Length L | 25.40/ 1.000 |
| | Mating M | 13.54/ .533 | Mating M | 5.87/ .231 | Mating M | 14.86/ .585 | Mating M | 14.86/ .585 |
| | Gold Loc G | N/A | Gold Loc G | N/A | Gold Loc G | N/A | Gold Loc G | N/A |
| | Height Y | 4.93/ .194 | Height Y | 4.90/ .193 | Height Y | 4.95/ .195 | Height Y | 4.95/ .195 |
| | PC Tail P | 3.86/ .152 | PC Tail P | 3.61/ .142 | PC Tail P | 3.56/ .140 | PC Tail P | 3.56/ .140 |
| | Tin Loc T | OVERALL | Tin Loc T | OVERALL | Tin Loc T | OVERALL | Tin Loc T | OVERALL |
| | PIN BEND R. | .045 R | PIN BEND R. | .045 R | Voided Ckts | CKT 3 | Voided Ckts | CKT 7 |
| | Pack Per | PK-41772-002 | Pack Per | PK-41772-001 | Pack Per | PK-41772-002 | Pack Per | PK-41772-002 |
| Ckts | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number |
| 2 | | A-41772-0291 | 26-60-3028 | A-41772-0308 | | | | |
| 3 | | A-41772-0292 | 26-60-3038 | A-41772-0309 | | A-41772-0325 | | |
| 4 | 26-60-3047 | A-41772-0293 | 26-60-3048 | A-41772-0310 | | A-41772-0326 | | |
| 5 | 26-60-3057 | A-41772-0294 | 26-60-3058 | A-41772-0311 | | A-41772-0327 | | |
| 6 | 26-60-3067 | A-41772-0295 | 26-60-3068 | A-41772-0312 | 26-62-3061 | A-41772-0328 | | |
| 7 | 26-60-3077 | A-41772-0296 | 26-60-3078 | A-41772-0313 | | A-41772-0329 | | A-41772-0341 |
| 8 | | A-41772-0297 | 26-60-3088 | A-41772-0314 | 26-62-3081 | A-41772-0330 | 26-62-3082 | A-41772-0342 |
| 9 | 26-60-3097 | A-41772-0298 | 26-60-3098 | A-41772-0315 | | A-41772-0331 | | A-41772-0343 |
| 10 | | A-41772-0299 | 26-60-3108 | A-41772-0316 | | A-41772-0332 | | A-41772-0344 |
| 11 | | A-41772-0300 | 26-60-3118 | A-41772-0317 | | A-41772-0333 | | A-41772-0345 |
| 12 | 26-60-3127 | A-41772-0301 | 26-60-3128 | A-41772-0318 | | A-41772-0334 | | A-41772-0346 |
| 13 | | A-41772-0302 | 26-60-3138 | A-41772-0319 | | A-41772-0335 | | A-41772-0347 |
| 14 | | A-41772-0303 | 26-60-3148 | A-41772-0320 | | A-41772-0336 | | A-41772-0348 |
| 15 | | A-41772-0304 | 26-60-3158 | A-41772-0321 | | A-41772-0337 | 26-62-3152 | A-41772-0349 |
| 16 | | A-41772-0305 | 26-60-3168 | A-41772-0322 | | A-41772-0338 | | A-41772-0350 |
| 17 | | A-41772-0306 | 26-60-3178 | A-41772-0323 | | A-41772-0339 | | A-41772-0351 |
| 18 | | A-41772-0307 | 26-60-3188 | A-41772-0324 | | A-41772-0340 | | A-41772-0352 |

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| REV: L6 | ECR/ECN INFORMATION: EC No.: UCP2010-0165 DATE: 8/24/2009 | TITLE: KK 156 HEADER ASSEMBLY FLAT RIGHT ANGLE SOLID BODY W/O PEGS | SHEET No. - 5 - |
| DOCUMENT NUMBER: SDA- 41772 | CREATED / REVISED BY: MKIPPER | CHECKED BY: JBELL | APPROVED BY: FSMITH |

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|---------|--------------|-------------------|--------------------|-------------------|--------------------|-------------------|--------------------|-------------------|
| OPTIONS | Group | A-41772-0353/0367 | Group | A-41772-0378/0394 | Group | A-41772-0412/0428 | Group | A-41772-0429/0445 |
| | Header No: | 41770-0004/0018 | Header No: | 41770-0002/0018 | Header No: | 41770-0002/0018 | Header No: | 41770-0002/0018 |
| | Pin No: | 2161-16(102) | Pin No: | 2161-56(102) | Pin No: | 2161-63(102) | Pin No: | 2161-67(102) |
| | Plating: | 102-TIN | Plating: | 102-TIN | Plating: | 102-TIN | Plating: | 102-TIN |
| | Pin Length L | 25.40/ 1.000 | Pin Length L | 17.86/ .703 | Pin Length L | 24.38/ .960 | Pin Length L | 18.69/ .736 |
| | Mating M | 14.86/ .585 | Mating M | 5.94/ .234 | Mating M | 15.06/ .593 | Mating M | 10.48/ .413 |
| | Gold Loc G | N/A | Gold Loc G | N/A | Gold Loc G | N/A | Gold Loc G | N/A |
| | Height Y | 4.95/ .195 | Height Y | 4.90/ .193 | Height Y | 2.71/ .107 | Height Y | 2.71/ .107 |
| | PC Tail P | 3.56/ .140 | PC Tail P | 4.45/ .175 | PC Tail P | 4.06/ .160 | PC Tail P | 2.92/ .115 |
| | Tin Loc T | OVERALL | Tin Loc T | OVERALL | Tin Loc T | OVERALL | Tin Loc T | OVERALL |
| | Voided Ckts | CKT 4 | PIN BEND R. | .045 R | PIN BEND R. | .045 R | PIN BEND R. | .045 R |
| | Pack Per | PK-41772-002 | Pack Per | PK-41772-001 | Pack Per | PK-41772-001 | Pack Per | PK-41772-001 |
| Ckts | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number |
| 2 | | | 26-60-3029 | A-41772-0378 | 27-60-3020 | A-41772-0412 | | A-41772-0429 |
| 3 | | | 26-60-3039 | A-41772-0379 | | A-41772-0413 | | A-41772-0430 |
| 4 | | A-41772-0353 | 26-60-3049 | A-41772-0380 | | A-41772-0414 | | A-41772-0431 |
| 5 | | A-41772-0354 | 26-60-3059 | A-41772-0381 | | A-41772-0415 | | A-41772-0432 |
| 6 | | A-41772-0355 | 26-60-3069 | A-41772-0382 | | A-41772-0416 | 27-60-3061 | A-41772-0433 |
| 7 | | A-41772-0356 | 26-60-3079 | A-41772-0383 | 27-60-3070 | A-41772-0417 | 27-60-3071 | A-41772-0434 |
| 8 | 26-62-3083 | A-41772-0357 | 26-60-3089 | A-41772-0384 | | A-41772-0418 | | A-41772-0435 |
| 9 | | A-41772-0358 | 26-60-3099 | A-41772-0385 | | A-41772-0419 | | A-41772-0436 |
| 10 | | A-41772-0359 | 26-60-3109 | A-41772-0386 | | A-41772-0420 | | A-41772-0437 |
| 11 | | A-41772-0360 | 26-60-3119 | A-41772-0387 | | A-41772-0421 | | A-41772-0438 |
| 12 | 26-62-3123 | A-41772-0361 | 26-60-3129 | A-41772-0388 | | A-41772-0422 | | A-41772-0439 |
| 13 | | A-41772-0362 | 26-60-3139 | A-41772-0389 | | A-41772-0423 | | A-41772-0440 |
| 14 | | A-41772-0363 | 26-60-3149 | A-41772-0390 | | A-41772-0424 | | A-41772-0441 |
| 15 | | A-41772-0364 | 26-60-3159 | A-41772-0391 | | A-41772-0425 | | A-41772-0442 |
| 16 | | A-41772-0365 | 26-60-3169 | A-41772-0392 | | A-41772-0426 | | A-41772-0443 |
| 17 | | A-41772-0366 | 26-60-3179 | A-41772-0393 | | A-41772-0427 | | A-41772-0444 |
| 18 | | A-41772-0367 | 26-60-3189 | A-41772-0394 | | A-41772-0428 | | A-41772-0445 |

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| REV: L6 | ECR/ECN INFORMATION: EC No.: UCP2010-0165 DATE: 8/24/2009 | TITLE: KK 156 HEADER ASSEMBLY FLAT RIGHT ANGLE SOLID BODY W/O PEGS | SHEET No. - 6 - |
| DOCUMENT NUMBER: SDA- 41772 | CREATED / REVISED BY: MKIPPER | CHECKED BY: JBELL | APPROVED BY: FSMITH |

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|---------|--------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------|
| OPTIONS | Group | A-41772-0446/0462 | Group | A-41772-0548/0560 | Group | A-41772-0561/0573 | Group | A-41772-0605/0621 |
| | Header No: | 41770-0002/0018 | Header No: | 41770-0006/0018 | Header No: | 41770-0006/0018 | Header No: | 41770-0002/0018 |
| | Pin No: | 2161-21(501) | Pin No: | 2161-16(102) | Pin No: | 2161-52(102) | Pin No: | 2161-64(503) |
| | Plating: | 501-GOLD | Plating: | 102-TIN | Plating: | 102-TIN | Plating: | 503-GOLD |
| | Pin Length L | 28.57/1.125 | Pin Length L | 25.40/ 1.000 | Pin Length L | 27.00/ 1.063 | Pin Length L | 29.85 / 1.175 |
| | Mating M | 17.60/.693 | Mating M | 14.86/ .585 | Mating M | 16.51/ .650 | Mating M | 15.19 / .598 |
| | Gold Loc G | OVERALL | Gold Loc G | N/A | Gold Loc G | N/A | Gold Loc G | OVERALL |
| | Height Y | 4.95/ .195 | Height Y | 4.95/ .195 | Height Y | 4.95/ .195 | Height Y | 9.25 / .364 |
| | PC Tail P | 3.99/ .157 | PC Tail P | 3.56/ .140 | PC Tail P | 3.51/ .138 | PC Tail P | 3.38 / .133 |
| | Tin Loc T | N/A | Tin Loc T | OVERALL | Tin Loc T | OVERALL | Tin Loc T | NA |
| | Voided Ckts | NONE | Voided Ckts | CKTS 2, 4, 6 | Voided Ckts. | CKTS 2, 4, 6 | Voided Ckts. | NONE |
| | Pack Per | PK-41772-002 | Pack Per | PK-41772-002 | Pack Per | PK-41772-002 | Pack Per | PK-41772-002 |
| Ckts | Material No | Engineer Number | Item No | | Item No | | Material No | Engineer Number |
| 2 | 27-60-3022 | A-41772-0446 | | | | | | 41772-0605 |
| 3 | 27-60-3032 | A-41772-0447 | | | | | 417720606 | 41772-0606 |
| 4 | 27-60-3042 | A-41772-0448 | | | | | | 41772-0607 |
| 5 | 27-60-3052 | A-41772-0449 | | | | | | 41772-0608 |
| 6 | 27-60-3062 | A-41772-0450 | 41772-0548 | | 41772-0561 | | | 41772-0609 |
| 7 | 27-60-3072 | A-41772-0451 | 41772-0549 | | 41772-0562 | | | 41772-0610 |
| 8 | 27-60-3082 | A-41772-0452 | 41772-0550 | | 41772-0563 | | | 41772-0611 |
| 9 | 27-60-3092 | A-41772-0453 | 41772-0551 | | 41772-0564 | | | 41772-0612 |
| 10 | 27-60-3102 | A-41772-0454 | 41772-0552 | | 41772-0565 | | | 41772-0613 |
| 11 | 27-60-3112 | A-41772-0455 | 41772-0553 | | 41772-0566 | | | 41772-0614 |
| 12 | 27-60-3122 | A-41772-0456 | 41772-0554 | | 41772-0567 | | | 41772-0615 |
| 13 | 27-60-3132 | A-41772-0457 | 41772-0555 | | 41772-0568 | | | 41772-0616 |
| 14 | 27-60-3142 | A-41772-0458 | 41772-0556 | | 41772-0569 | | | 41772-0617 |
| 15 | 27-60-3152 | A-41772-0459 | 41772-0557 | | 41772-0570 | | | 41772-0618 |
| 16 | 27-60-3162 | A-41772-0460 | 41772-0558 | | 41772-0571 | | | 41772-0619 |
| 17 | 27-60-3172 | A-41772-0461 | 41772-0559 | | 41772-0572 | | | 41772-0620 |
| 18 | 27-60-3182 | A-41772-0462 | 41772-0560 | | 41772-0573 | | | 41772-0621 |

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| REV: L6 | ECR/ECN INFORMATION: EC No.: UCP2010-0165 DATE: 8/24/2009 | TITLE: KK 156 HEADER ASSEMBLY FLAT RIGHT ANGLE SOLID BODY W/O PEGS | SHEET No. - 7 - |
| DOCUMENT NUMBER: SDA- 41772 | CREATED / REVISED BY: MKIPPER | CHECKED BY: JBELL | APPROVED BY: FSMITH |

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|---------|--------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| OPTIONS | Group | 41772-0622/0631 | Group | 41772-0632/0647 | Group | 41772-0648/0657 | Group | 41772-0663 |
| | Header No: | 41770-0009/0018 | Header No: | 41770-0003/0018 | Header No: | 41770-0009/0018 | Header No: | 41770-0004 |
| | Pin No: | 2161-70(102) | Pin No: | 2161-24(102) | Pin No: | 2161-45(102) | Pin No: | 2161-45(154) |
| | Plating: | 102 – TIN | Plating: | 102 – TIN | Plating: | 102 – TIN | Plating: | 154 – TIN |
| | Pin Length L | 23.24 / .915 | Pin Length L | 20.32 / .800 | Pin Length L | 20.85 / .821 | Pin Length L | 20.85 / .821 |
| | Mating M | 13.08 / .515 | Mating M | 13.08 / .515 | Mating M | 13.08 / .515 | Mating M | 10.16 / .400 |
| | Gold Loc G | N/A | Gold Loc G | N/A | Gold Loc G | N/A | Gold Loc G | N/A |
| | Height Y | 4.95 / .195 | Height Y | 1.98 / .078 | Height Y | 2.54 / .100 | Height Y | 4.95 / .195 |
| | PC Tail P | 3.18 / .125 | PC Tail P | 3.18 / .125 | PC Tail P | 3.18 / .125 | PC Tail P | 3.71 / .146 |
| | Tin Loc T | OVERALL | Tin Loc T | OVERALL | Tin Loc T | OVERALL | Tin Loc T | OVERALL |
| | Voided Ckts | 5, 8, 9 | Voided Ckts | 3 | Voided Ckts | 5, 8, 9 | Voided Ckts | NONE |
| | Pack Per | PK-41772-001 | Pack Per | PK-41772-001 | Pack Per | PK-41772-001 | Pack Per | PK-41772-001 |
| Ckts | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number | Material No | Engineer Number |
| 2 | | | | | | | | |
| 3 | | | | 41772-0632 | | | | |
| 4 | | | | 41772-0633 | | | 41772-0663 | 41772-0663 |
| 5 | | | | 41772-0634 | | | | |
| 6 | | | | 41772-0635 | | | | |
| 7 | | | 41772-0636 | 41772-0636 | | | | |
| 8 | | | | 41772-0637 | | | | |
| 9 | | 41772-0622 | | 41772-0638 | | 41772-0648 | | |
| 10 | | 41772-0623 | | 41772-0639 | | 41772-0649 | | |
| 11 | | 41772-0624 | | 41772-0640 | | 41772-0650 | | |
| 12 | | 41772-0625 | | 41772-0641 | | 41772-0651 | | |
| 13 | | 41772-0626 | | 41772-0642 | | 41772-0652 | | |
| 14 | 41772-0627 | 41772-0627 | | 41772-0643 | 41772-0653 | 41772-0653 | | |
| 15 | | 41772-0628 | | 41772-0644 | | 41772-0654 | | |
| 16 | | 41772-0629 | | 41772-0645 | | 41772-0655 | | |
| 17 | | 41772-0630 | | 41772-0646 | | 41772-0656 | | |
| 18 | | 41772-0631 | | 41772-0647 | | 41772-0657 | | |

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| REV: L6 | ECR/ECN INFORMATION: EC No.: UCP2010-0165 DATE: 8/24/2009 | TITLE: KK 156 HEADER ASSEMBLY FLAT RIGHT ANGLE SOLID BODY W/O PEGS | SHEET No. - 8 - |
| DOCUMENT NUMBER: SDA- 41772 | CREATED / REVISED BY: MKIPPER | CHECKED BY: JBELL | APPROVED BY: FSMITH |