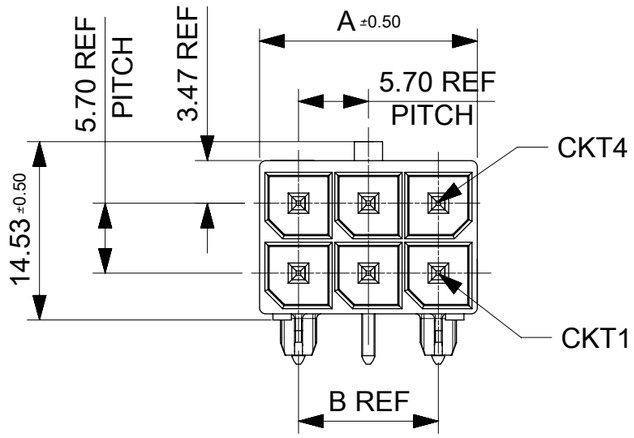
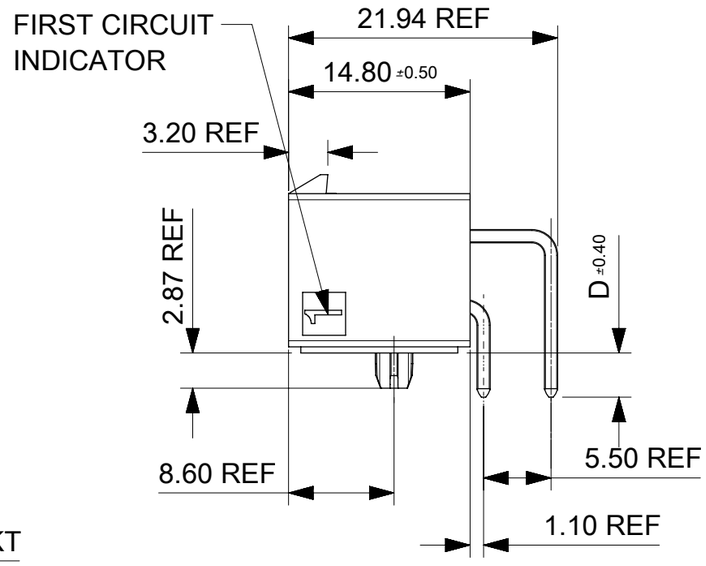
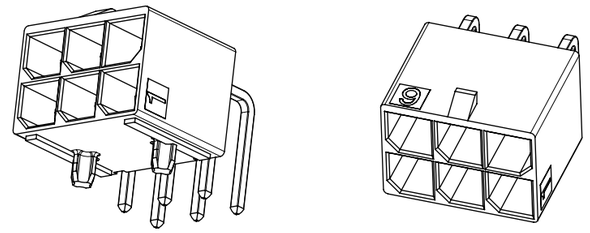
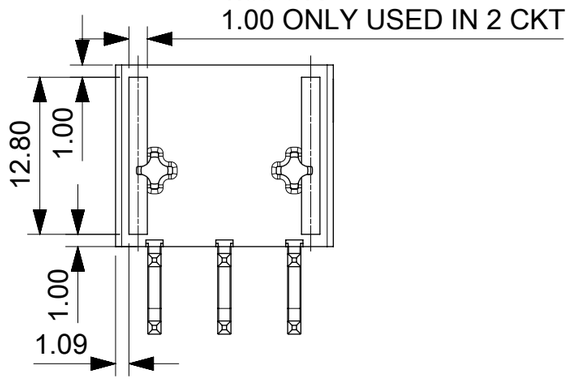


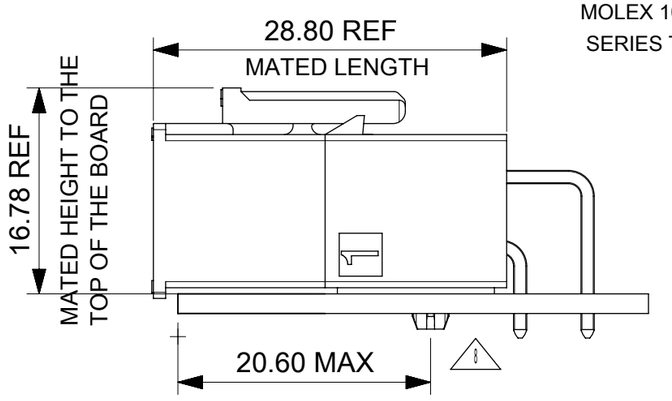



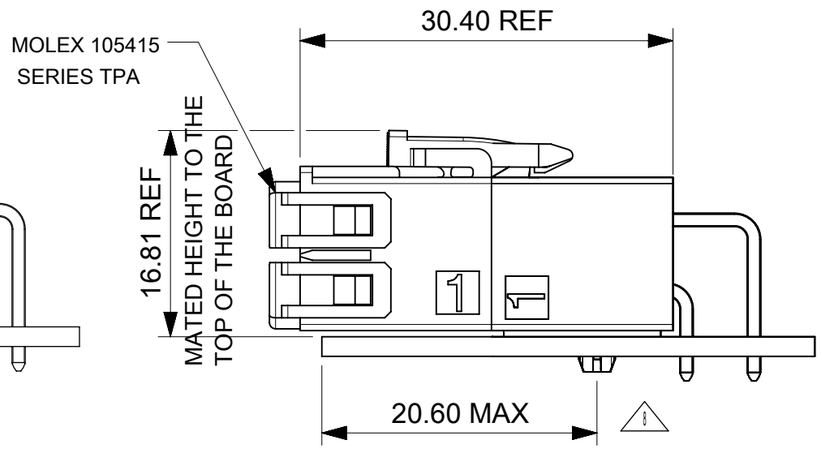



76825-0006 SHOWN




NONE-TPA VERSION




TPA-CAPABLE VERSION

NOTES:
1. MATERIAL:
   HOUSING LCP, UL94V-0, GLOW WIRE CAPABLE PER IEC-60335-1 5TH EDITION, COLOR: SEE CHART.
   TERMINAL: HIGH CONDUCTIVITY COPPER.
2. TERMINAL PLATING:
   (TIN) 1.52 MICROMETER MIN REFLOWED MATTE TIN OVER
   1.27 MICROMETER MIN NICKEL OVERALL.
   (15 GOLD) 0.38 MICROMETER MIN SELECTIVE GOLD ON CONTACT AREA
   WITH 2.54 MICROMETER MIN SELECTIVE TIN ON SOLDER AREA
   BOTH OVER 1.27 MICROMETER MIN NICKEL OVERALL.
   (30 GOLD) 0.76 MICROMETER MIN SELECTIVE GOLD ON CONTACT AREA
   WITH 2.54 MICROMETER MIN SELECTIVE TIN ON SOLDER AREA
   BOTH OVER 1.27 MICROMETER MIN NICKEL OVERALL.
3. PRODUCT SPECIFICATION PS-76823-100, 1720631000-PS
4. PACKAGING: TRAY PACKED PER MOLEX SPECIFICATION PK-76825-0000, WHILE T&R IS 1720640900.
5. BLACK PART MATES WITH MOLEX PART NUMBER 170001 AND 171692 SERIES.
   NON-BLACK PART MATES WITH MOLEX PART NUMBER 224983 SERIES.S.
6. APPLICATION SPECIFICATION: AS-76823-100, 768232000-AS
7. PARTS CONFORM TO CLASS "B" REQUIREMENTS OF COSMETIC SPECIFICATION PS-45499-002.
8. TO AVOID INTERFERENCE BETWEEN RECEPTACLE AND PCB, HEADER MUST BE PLACED
   WITHIN 20.6 MAX FROM EDGE OF PCB AS SHOWN FOR 4 THROUGH 12 CIRCUITS.
   FOR 2 CIRCUIT PARTS THIS DIMENSION IS 15.1 MAX.

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

| DIMENSION UNITS | SCALE |
|---|---|
| mm | NTS |

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | | |
|---|---|---|
| ANGULAR TOL | ± | 3.0 ° |
| 4 PLACES | ± | |
| 3 PLACES | ± | |
| 2 PLACES | ± | 0.4 |
| 1 PLACE | ± | 0.5 |
| 0 PLACES | ± | |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 850632
DRWN: JERRYW8 2025/05/09
CHK'D: XQZHANG 2026/03/25
APPR: XQZHANG 2026/03/25

INITIAL REVISION:
DRWN: MKARADIMAS 2010/11/15
APPR: APATEL 2012/06/13

molex

MEGA-FIT RIGHT ANGLE HEADER
R/A HEADER ASSY 2-12 CKT

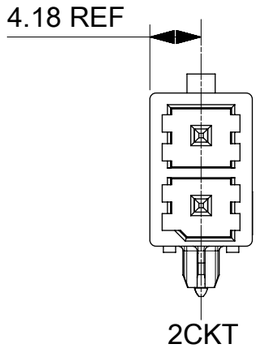
PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| SD-76825-0100 | PSD | 000 | F4 |

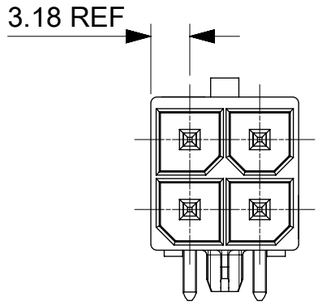
| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | A3-SIZE | 76825 | SEE TABLE | GENERAL MARKET | 1 OF 4 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2026/03/25 09:24:02 |
|---|---|---|---|

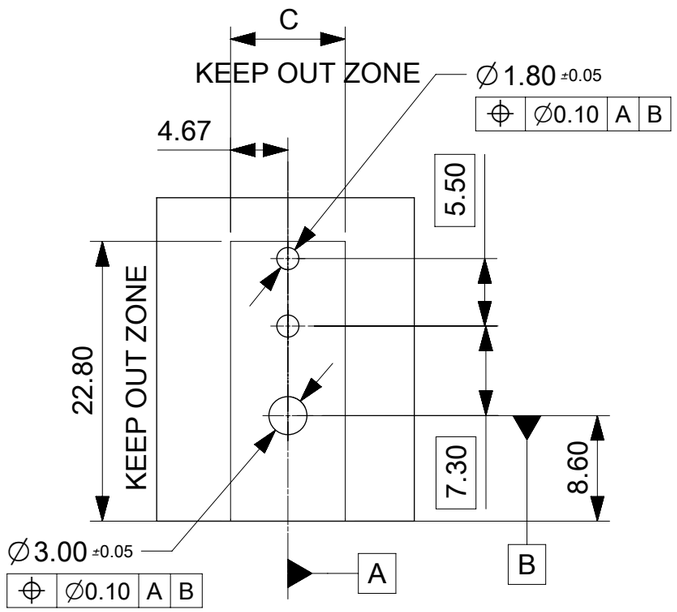
FORMAT: master-tb-prod-A3
REVISION: J1
DATE: 2021/05/01



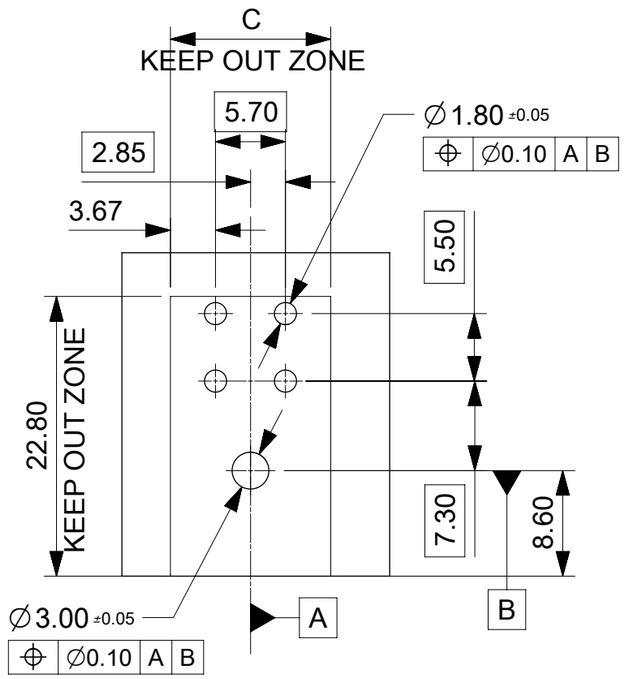

2CKT



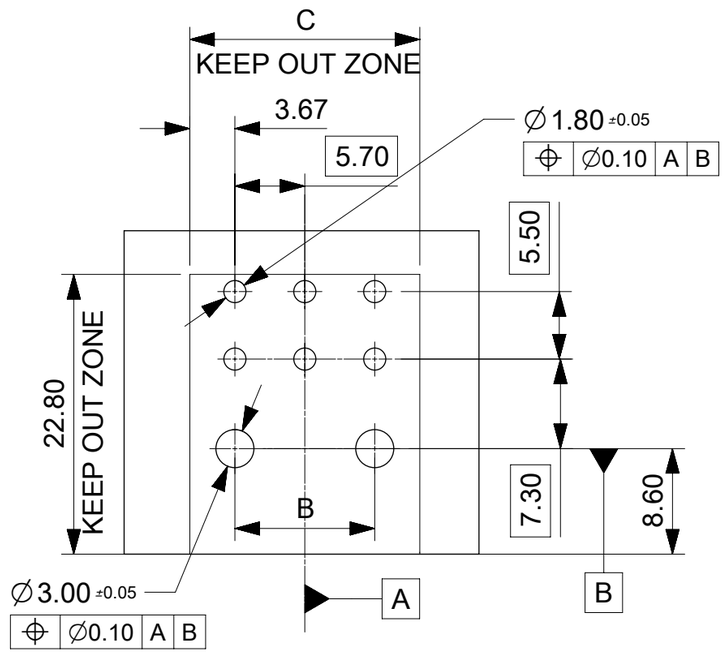

4CKT-12CKT




PCB LAYOUT: COMPONENT SIDE
RECOMENDED PCB THICKNESS: 1.58 MM/.062 IN
TO 2.36 MM/.093 IN




PCB LAYOUT: COMPONENT SIDE
RECOMENDED PCB THICKNESS: 1.58 MM/.062 IN
TO 2.36 MM/.093 IN




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RECOMENDED PCB THICKNESS: 1.58 MM/.062 IN
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| DIMENSION UNITS | SCALE |
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| mm | NTS |

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | |
|---|---|
| ANGULAR TOL | ± 3.0 ° |
| 4 PLACES | ± |
| 3 PLACES | ± |
| 2 PLACES | ± 0.4 |
| 1 PLACE | ± 0.5 |
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molex

MEGA-FIT RIGHT ANGLE HEADER
R/A HEADER ASSY 2-12 CKT

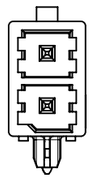
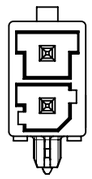
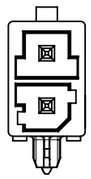
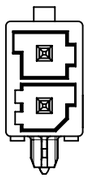
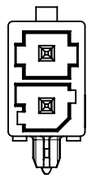
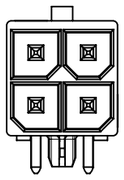
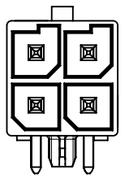
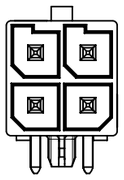
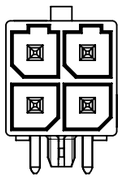
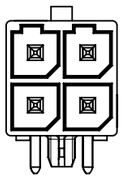
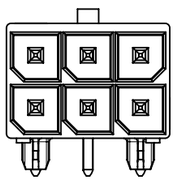
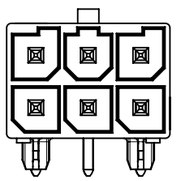
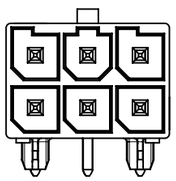
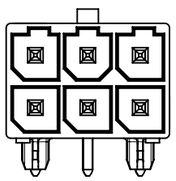
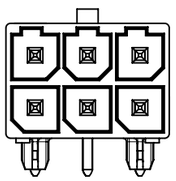
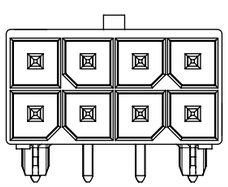
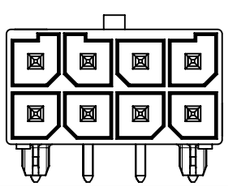
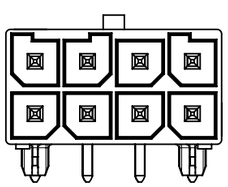
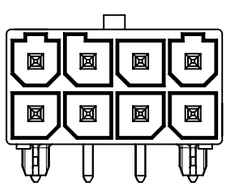
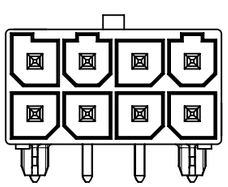
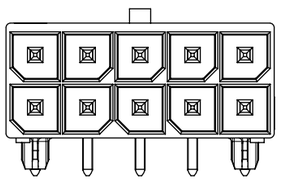
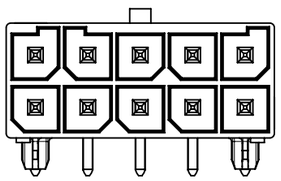
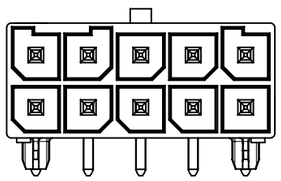
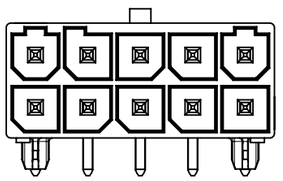
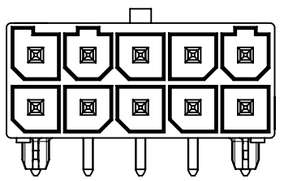
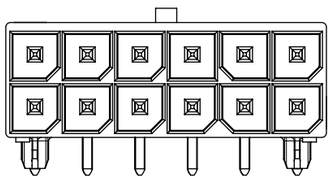
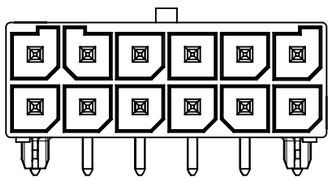
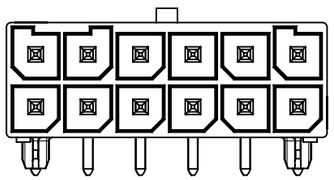
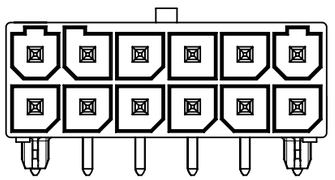
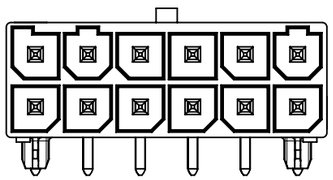
PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| SD-76825-0100 | PSD | 000 | F4 |

| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | A3-SIZE | 76825 | SEE TABLE | GENERAL MARKET | 2 OF 4 |

| DOCUMENT STATUS | P1 | RELEASE DATE | 2026/03/25 09:24:02 |
|---|---|---|---|

FORMAT: master-tb-prod-A3
REVISION: J1
DATE: 2021/05/01

| CKT | POLARIZATION-BLACK | POLARIZATION-NATURAL | POLARIZATION-RED | POLARIZATION-BLUE | POLARIZATION-YELLOW |
|---|---|---|---|---|---|
| 2 CKT |  |  |  |  |  |
| 4 CKT |  |  |  |  |  |
| 6 CKT |  |  |  |  |  |
| 8 CKT |  |  |  |  |  |
| 10 CKT |  |  |  |  |  |
| 12 CKT |  |  |  |  |  |

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| | |
|---|---|
| DIMENSION UNITS | mm |
| SCALE | NTS |
| GENERAL TOLERANCES (UNLESS SPECIFIED) | |
| ANGULAR TOL | ± 3.0 ° |
| 4 PLACES | ± |
| 3 PLACES | ± |
| 2 PLACES | ± 0.4 |
| 1 PLACE | ± 0.5 |
| 0 PLACES | ± |

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THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 76825

molex

MEGA-FIT RIGHT ANGLE HEADER
R/A HEADER ASSY 2-12 CKT

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|---|---|---|---|
| SD-76825-0100 | PSD | 000 | F4 |

| MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|
| SEE TABLE | GENERAL MARKET | 3 OF 4 |

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

FORMAT: master-ib-prod-A3
REVISION: J1
DATE: 2021/05/01

| CKT SIZE | PART NO. | PLATING | DIM A | DIM B | DIM C | DIM D | PK SPEC | HEADER COLOR |
|---|---|---|---|---|---|---|---|---|
| 2 | 76825-0002 | TIN | 8.35 | N/A | 9.35 | 3.60 | TRAY | BLACK |
| 4 | 76825-0004 | TIN | 12.05 | N/A | 13.05 | 3.60 | | |
| 6 | 76825-0006 | TIN | 17.75 | 11.4 | 18.75 | 3.60 | | |
| 8 | 76825-0008 | TIN | 23.45 | 17.1 | 24.45 | 3.60 | | |
| 10 | 76825-0010 | TIN | 29.15 | 22.8 | 30.15 | 3.60 | | |
| 12 | 76825-0012 | TIN | 34.85 | 28.5 | 35.85 | 3.60 | | |
| | | | | | | | | |
| 2 | 76825-0102 | TIN | 8.35 | N/A | 9.35 | 2.50 | | |
| 4 | 76825-0104 | TIN | 12.05 | N/A | 13.05 | 2.50 | | |
| 6 | 76825-0106 | TIN | 17.75 | 11.4 | 18.75 | 2.50 | | |
| 8 | 76825-0108 | TIN | 23.45 | 17.1 | 24.45 | 2.50 | | |
| 10 | 76825-0110 | TIN | 29.15 | 22.8 | 30.15 | 2.50 | | |
| 12 | 76825-0112 | TIN | 34.85 | 28.5 | 35.85 | 2.50 | | |
| | | | | | | | | |
| 2 | 172064-0002 | 15 GOLD | 8.35 | N/A | 9.35 | 3.60 | | |
| 4 | 172064-0004 | 15 GOLD | 12.05 | N/A | 13.05 | 3.60 | | |
| 6 | 172064-0006 | 15 GOLD | 17.75 | 11.4 | 18.75 | 3.60 | | |
| 8 | 172064-0008 | 15 GOLD | 23.45 | 17.1 | 24.45 | 3.60 | | |
| 10 | 172064-0010 | 15 GOLD | 29.15 | 22.8 | 30.15 | 3.60 | | |
| 12 | 172064-0012 | 15 GOLD | 34.85 | 28.5 | 35.85 | 3.60 | | |
| 2 | 172064-1002 | 30 GOLD | 8.35 | N/A | 9.35 | 3.60 | | |
| 4 | 172064-1004 | 30 GOLD | 12.05 | N/A | 13.05 | 3.60 | | |
| 6 | 172064-1006 | 30 GOLD | 17.75 | 11.4 | 18.75 | 3.60 | | |
| 8 | 172064-1008 | 30 GOLD | 23.45 | 17.1 | 24.45 | 3.60 | | |
| 10 | 172064-1010 | 30 GOLD | 29.15 | 22.8 | 30.15 | 3.60 | | |
| 12 | 172064-1012 | 30 GOLD | 34.85 | 28.5 | 35.85 | 3.60 | | |
| | | | | | | | | |
| 2 | 76825-0902 | TIN | 8.35 | N/A | 9.35 | 3.60 | TAPE&REEL | |
| 4 | 76825-0904 | TIN | 12.05 | N/A | 13.05 | 3.60 | | |
| 6 | 76825-0906 | TIN | 17.75 | 11.4 | 18.75 | 3.60 | | |
| 8 | 76825-0908 | TIN | 23.45 | 17.1 | 24.45 | 3.60 | | |
| 10 | 76825-0910 | TIN | 29.15 | 22.8 | 30.15 | 3.60 | | |
| 12 | 76825-0912 | TIN | 34.85 | 28.5 | 35.85 | 3.60 | | |
| 2 | 172064-0902 | 15 GOLD | 8.35 | N/A | 9.35 | 3.60 | | |
| 4 | 172064-0904 | 15 GOLD | 12.05 | N/A | 13.05 | 3.60 | | |
| 6 | 172064-0906 | 15 GOLD | 17.75 | 11.4 | 18.75 | 3.60 | | |
| 8 | 172064-0908 | 15 GOLD | 23.45 | 17.1 | 24.45 | 3.60 | | |
| 10 | 172064-0910 | 15 GOLD | 29.15 | 22.8 | 30.15 | 3.60 | | |
| 12 | 172064-0912 | 15 GOLD | 34.85 | 28.5 | 35.85 | 3.60 | | |
| 2 | 172064-1902 | 30 GOLD | 8.35 | N/A | 9.35 | 3.60 | | |
| 4 | 172064-1904 | 30 GOLD | 12.05 | N/A | 13.05 | 3.60 | | |
| 6 | 172064-1906 | 30 GOLD | 17.75 | 11.4 | 18.75 | 3.60 | | |
| 8 | 172064-1908 | 30 GOLD | 23.45 | 17.1 | 24.45 | 3.60 | | |
| 10 | 172064-1910 | 30 GOLD | 29.15 | 22.8 | 30.15 | 3.60 | | |
| 12 | 172064-1912 | 30 GOLD | 34.85 | 28.5 | 35.85 | 3.60 | | |

| CKT SIZE | PART NO. | PLATING | DIM A | DIM B | DIM C | DIM D | PK SPEC | HEADER COLOR |
|---|---|---|---|---|---|---|---|---|
| 2 | 172064-0202 | TIN | 8.35 | N/A | 9.35 | 3.60 | TRAY | NATURAL |
| 4 | 172064-0204 | | 12.05 | N/A | 13.05 | 3.60 | | |
| 6 | 172064-0206 | | 17.75 | 11.4 | 18.75 | 3.60 | | |
| 8 | 172064-0208 | | 23.45 | 17.1 | 24.45 | 3.60 | | |
| 10 | 172064-0210 | | 29.15 | 22.8 | 30.15 | 3.60 | | |
| 12 | 172064-0212 | | 34.85 | 28.5 | 35.85 | 3.60 | | |
| 2 | 172064-0302 | | 8.35 | N/A | 9.35 | 3.60 | | RED |
| 4 | 172064-0304 | | 12.05 | N/A | 13.05 | 3.60 | | |
| 6 | 172064-0306 | | 17.75 | 11.4 | 18.75 | 3.60 | | |
| 8 | 172064-0308 | | 23.45 | 17.1 | 24.45 | 3.60 | | |
| 10 | 172064-0310 | | 29.15 | 22.8 | 30.15 | 3.60 | | |
| 12 | 172064-0312 | | 34.85 | 28.5 | 35.85 | 3.60 | | |
| 2 | 172064-0402 | | 8.35 | N/A | 9.35 | 3.60 | | BLUE |
| 4 | 172064-0404 | | 12.05 | N/A | 13.05 | 3.60 | | |
| 6 | 172064-0406 | | 17.75 | 11.4 | 18.75 | 3.60 | | |
| 8 | 172064-0408 | | 23.45 | 17.1 | 24.45 | 3.60 | | |
| 10 | 172064-0410 | | 29.15 | 22.8 | 30.15 | 3.60 | | |
| 12 | 172064-0412 | | 34.85 | 28.5 | 35.85 | 3.60 | | |
| 2 | 172064-0502 | | 8.35 | N/A | 9.35 | 3.60 | | YELLOW |
| 4 | 172064-0504 | | 12.05 | N/A | 13.05 | 3.60 | | |
| 6 | 172064-0506 | | 17.75 | 11.4 | 18.75 | 3.60 | | |
| 8 | 172064-0508 | | 23.45 | 17.1 | 24.45 | 3.60 | | |
| 10 | 172064-0510 | | 29.15 | 22.8 | 30.15 | 3.60 | | |
| 12 | 172064-0512 | | 34.85 | 28.5 | 35.85 | 3.60 | | |

PRE-RELEASE REFERENCE USE ONLY

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

| DIMENSION UNITS | SCALE |
|---|---|
| mm | NTS |

GENERAL TOLERANCES (UNLESS SPECIFIED)

| | |
|---|---|
| ANGULAR TOL | ± 3.0 ° |
| 4 PLACES | ± |
| 3 PLACES | ± |
| 2 PLACES | ± 0.4 |
| 1 PLACE | ± 0.5 |
| 0 PLACES | ± |

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 850632
DRWN: JERRYW8 2025/05/09
CHK'D: XQZHANG 2026/03/25
APPR: XQZHANG 2026/03/25

INITIAL REVISION:
DRWN: MKARADIMAS 2010/11/15
APPR: APATEL 2012/06/13

molex

MEGA-FIT RIGHT ANGLE HEADER
R/A HEADER ASSY 2-12 CKT

PRODUCT CUSTOMER DRAWING

| DOCUMENT NUMBER | DOC TYPE | DOC PART | REVISION |
|---|---|---|---|
| SD-76825-0100 | PSD | 000 | F4 |

| THIRD ANGLE PROJECTION | DRAWING | SERIES | MATERIAL NUMBER | CUSTOMER | SHEET NUMBER |
|---|---|---|---|---|---|
| | A3-SIZE | 76825 | SEE TABLE | GENERAL MARKET | 4 OF 4 |

| DOCUMENT STATUS | | RELEASE DATE | |
|---|---|---|---|

FORMAT: master-tb-prod-A3
REVISION: J1
DATE: 2021/05/01