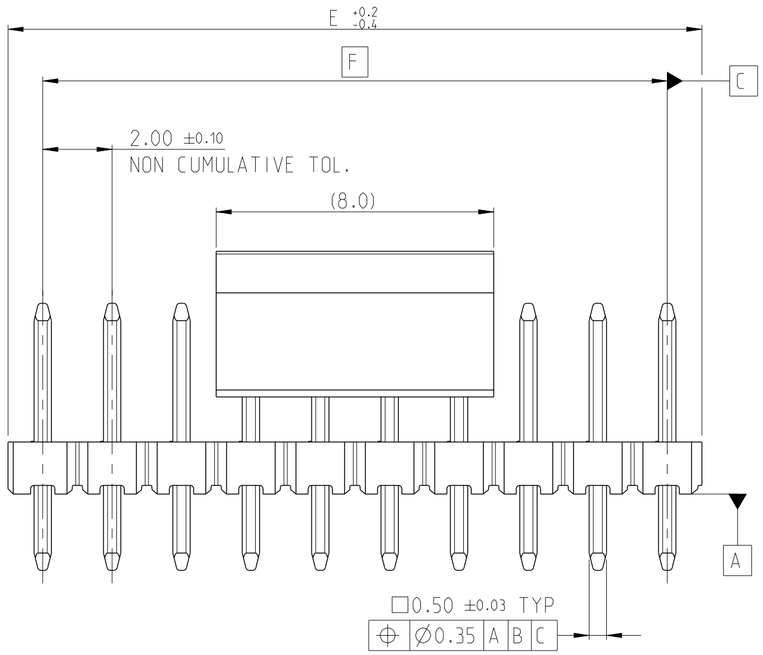
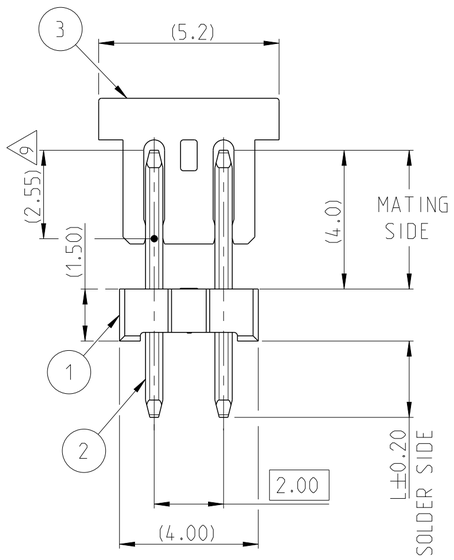
© 2023 TE Connectivity. All Rights Reserved.

| REVISIONS | | | | | |
|---|---|---|---|---|---|
| P | LTR | DESCRIPTION | DATE | DWN | APVD |
| | A | RELEASE TO PRODUCTION | 19OCT2023 | Ka | SS |
| | A1 | DIMENSION TOLERANCE CORRECTION | 29FEB2024 | KA | SS |
| | | | | | |
| | | | | | |




NOTES:

1. MATERIAL: HOUSING & P&P CAP: HIGH TEMPERATURE THERMOPLASTIC, UL94-V0; COLOR- BLACK
   POST: PHOSPHOR BRONZE

FINISH :

△2 3-5 µm TIN OVER MIN 1.27 µm NICKEL UNDER PLATING

△3 MATING SIDE: MIN. 0.1 µm SELECTIVE GOLD OVER MIN. 1.27 µm NICKEL UNDER PLATING
SOLDER SIDE: 4-6 µm TIN OVER MIN 1.27 µm NICKEL UNDER PLATING

△4 MATING SIDE: MIN. 0.38 µm SELECTIVE GOLD OVER MIN. 1.27 µm NICKEL UNDER PLATING
SOLDER SIDE: 4-6 µm TIN OVER MIN 1.27 µm NICKEL UNDER PLATING

△5 MATING SIDE: MIN. 0.76 µm SELECTIVE GOLD OVER MIN. 1.27 µm NICKEL UNDER PLATING
SOLDER SIDE: 4-6 µm TIN OVER MIN 1.27 µm NICKEL UNDER PLATING

6. FOR SMART PART NUMBER, NO. OF POSITIONS PER CONNECTOR HAS TO BE ADDED NEXT TO NO. OF ROWS (2MM-HB-D__-VT-__-__-__). REFER SHEET 2 NOMENCLATURE.

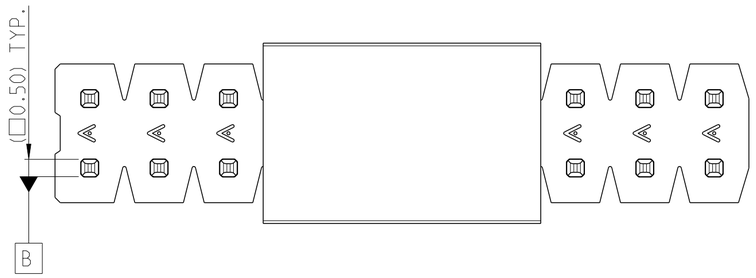
   FOR EXAMPLE: 2MM-HB-D02-VT-01-T-TB = 4 POSITION.
   2MM-HB-D25-VT-01-T-TB = 50 POSITION.

7. PACKAGING: A. TAPE & REEL WITH (W/) CAP.
   B. TUBE WITH (W/) & WITHOUT (W/O) CAP.

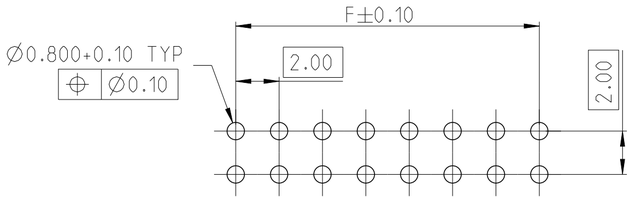
△8 FOR TUBE PACKAGING W/CAP:
NO PICK AND PLACE CAP FOR -4 AND -6 POS. HEADER POISTION STARTS FROM -8 POS.

△9 PLATING THICKNESS MEASUREMENT POINT REFERENCE FOR SELECTIVE GOLD PLATING AREA

10. "L" DENOTES TAIL LENGTH

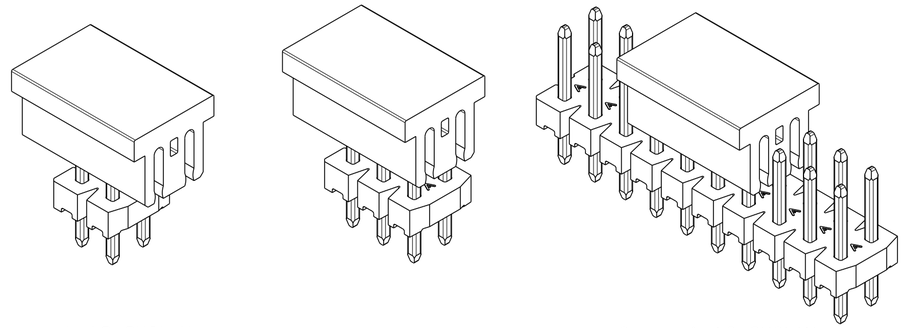



| | |
|---|---|
| CAP | 3 |
| POST | 2 |
| HOUSING | 1 |
| DESCRIPTION | ITEM NO. |




RECOMMENDED PCB HOLE PATTERN FOR THROUGH HOLE WAVE

SCALE 5:1



-4 AS SHOWN

-6 AS SHOWN

2- -0 AS SHOWN

| | | | |
|---|---|---|---|
| THIS DRAWING IS A CONTROLLED DOCUMENT. | | DWN RAKSHITH NAYAK 11FEB2016 | TE Connectivity |
| | | CHK KARTHIK 14APR2016 | |
| DIMENSIONS: mm | TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ±- ; 1 PLC ±0.1 ; 2 PLC ±0.05 ; 3 PLC ±- ; 4 PLC ±- ; ANGLES ±2° | APVD PRASHANTH 14APR2016 | NAME AMPMODU 2mm, BREAKAWAY HEADER DUAL ROW, VERTICAL |
| | | PRODUCT SPEC 108-64040 | |
| | | APPLICATION SPEC 114-64040 | SIZE A2 · CAGE CODE 00779 · DRAWING NO C-2823110 · RESTRICTED TO - |
| MATERIAL SEE NOTES | FINISH SEE NOTES | WEIGHT | |
| | | CUSTOMER DRAWING | SCALE 8:1 · SHEET 1 OF 3 · REV A1 |

© 2023 TE Connectivity. All Rights Reserved.

| REVISIONS | | | | | |
|---|---|---|---|---|---|
| P | LTR | DESCRIPTION | DATE | DWN | APVD |
| | - | SEE SHEET 1 | - | - | - |
| | | | | | |
| | | | | | |
| | | | | | |

# SMART PART NUMBER

2MM - HB - D ___ - VT - ___ - ___ - ___

## PRODUCT SERIES

| | |
|---|---|
| 2MM | AMPMODU 2mm series |

## GENDER / TYPE

| | |
|---|---|
| HB | Breakaway headers |

## NUMBER OF ROWS

| | |
|---|---|
| D | Double row |

## NUMBER OF PINS PER ROW

| | |
|---|---|
| XX | 02 through 25<br>(enter two digits) |

## ORIENTATION & TERMINATION

| | |
|---|---|
| VT | Vertical through hole |

## PACKAGING

| | |
|---|---|
| TB | Tube without cap |
| TBP | Tube with cap |
| TRP | Tape and reel with cap |

8

## PLATING

| | |
|---|---|
| T | Tin |
| F | 0.1µm selective Gold (Gold flash) |
| M | 0.38µm selective Gold |
| H | 0.76µm selective Gold |

## TAIL LENGTH (L)

| | |
|---|---|
| 01 | 2.2 mm |
| 02 | 2.8 mm |

SMART PN EXAMPLES :

1. AMPMODU 2MM, BREAKAWAY HEADER, DOUBLE ROW, 02 POSITION PER ROW, VERTICAL MOUNT, 2.2MM SOLDER TAIL LENGTH, TIN PLATING, TUBE W/O CAP
   2MM-HB-D02-VT-01-T-TB

2. AMPMODU 2MM, BREAKAWAY HEADER, DOUBLE ROW, 25 POSITION PER ROW, VERTICAL MOUNT, 2.8MM SOLDER TAIL LENGTH, 0.76µm SELECTIVE GOLD PLATING, TAPE AND REEL WITH CAP
   2MM-HB-D25-VT-02-H-TRP

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±-
1 PLC ±0.1
2 PLC ±0.05
3 PLC ±-
4 PLC ±-
ANGLES ±2°

MATERIAL: SEE NOTES
FINISH: SEE NOTES

| | |
|---|---|
| DWN | 11FEB2016 RAKSHITH NAYAK |
| CHK | 14APR2016 KARTHIK |
| APVD | 14APR2016 PRASHANTH |
| PRODUCT SPEC | 108-64040 |
| APPLICATION SPEC | 114-64040 |
| WEIGHT | |

TE Connectivity

NAME: AMPMODU 2mm, BREAKAWAY HEADER DUAL ROW ,VERTICAL

| SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO |
|---|---|---|---|
| A2 | 00779 | C-2823110 | - |

CUSTOMER DRAWING | SCALE 1:1 | SHEET 2 OF 3 | REV A1

© 2023 TE Connectivity. All Rights Reserved.

| REVISIONS | | | | | |
|---|---|---|---|---|---|
| P | LTR | DESCRIPTION | DATE | DWN | APVD |
| | - | SEE SHEET 1 | - | - | - |
| | | | | | |
| | | | | | |
| | | | | | |

| TE INTERNAL BASE NO. | PACKAGING TYPE | MATING SIDE PLATING FINISH | SOLDER TAIL LENGTH "L" | SMART PN |
|---|---|---|---|---|
| 2823110 | TUBE W/O CAP | TIN (2) | 2.2 | 2MM-HB-DXX-VT-01-T-TB |
| 2823739 | TUBE W/ CAP | | 2.2 | 2MM-HB-DXX-VT-01-T-TBP |
| 2823473 | TAPE AND REEL W/ CAP | | 2.2 | 2MM-HB-DXX-VT-01-T-TRP |
| 2823112 | TUBE W/O CAP | | 2.8 | 2MM-HB-DXX-VT-02-T-TB |
| 2823755 | TUBE W/ CAP | | 2.8 | 2MM-HB-DXX-VT-02-T-TBP |
| 2823477 | TAPE AND REEL W/ CAP | | 2.8 | 2MM-HB-DXX-VT-02-T-TRP |
| 2823114 | TUBE W/O CAP | SELECTIVE Au flash 0.1µm (3) | 2.2 | 2MM-HB-DXX-VT-01-F-TB |
| 2823740 | TUBE W/ CAP | | 2.2 | 2MM-HB-DXX-VT-01-F-TBP |
| 2823474 | TAPE AND REEL W/ CAP | | 2.2 | 2MM-HB-DXX-VT-01-F-TRP |
| 2823116 | TUBE W/O CAP | | 2.8 | 2MM-HB-DXX-VT-02-F-TB |
| 2823756 | TUBE W/ CAP | | 2.8 | 2MM-HB-DXX-VT-02-F-TBP |
| 2823478 | TAPE AND REEL W/ CAP | | 2.8 | 2MM-HB-DXX-VT-02-F-TRP |
| 2823118 | TUBE W/O CAP | SELECTIVE Au 0.38µm (4) | 2.2 | 2MM-HB-DXX-VT-01-M-TB |
| 2823741 | TUBE W/ CAP | | 2.2 | 2MM-HB-DXX-VT-01-M-TBP |
| 2823475 | TAPE AND REEL W/ CAP | | 2.2 | 2MM-HB-DXX-VT-01-M-TRP |
| 2823120 | TUBE W/O CAP | | 2.8 | 2MM-HB-DXX-VT-02-M-TB |
| 2823757 | TUBE W/ CAP | | 2.8 | 2MM-HB-DXX-VT-02-M-TBP |
| 2823479 | TAPE AND REEL W/ CAP | | 2.8 | 2MM-HB-DXX-VT-02-M-TRP |
| 2823122 | TUBE W/O CAP | SELECTIVE Au 0.76µm (5) | 2.2 | 2MM-HB-DXX-VT-01-H-TB |
| 2823742 | TUBE W/ CAP | | 2.2 | 2MM-HB-DXX-VT-01-H-TBP |
| 2823476 | TAPE AND REEL W/ CAP | | 2.2 | 2MM-HB-DXX-VT-01-H-TRP |
| 2823124 | TUBE W/O CAP | | 2.8 | 2MM-HB-DXX-VT-02-H-TB |
| 2823758 | TUBE W/ CAP | | 2.8 | 2MM-HB-DXX-VT-02-H-TBP |
| 2823480 | TAPE AND REEL W/ CAP | | 2.8 | 2MM-HB-DXX-VT-02-H-TRP |

| DIM "F" | DIM "E" | PINS PER ROW "XX" | POSITION PER CONNECTOR | TE INTERNAL PART NO. |
|---|---|---|---|---|
| 48 | 50 | 25 | 50 | 5- -0 |
| 46 | 48 | 24 | 48 | 4- -8 |
| 44 | 46 | 23 | 46 | 4- -6 |
| 42 | 44 | 22 | 44 | 4- -4 |
| 40 | 42 | 21 | 42 | 4- -2 |
| 38 | 40 | 20 | 40 | 4- -0 |
| 36 | 38 | 19 | 38 | 3- -8 |
| 34 | 36 | 18 | 36 | 3- -6 |
| 32 | 34 | 17 | 34 | 3- -4 |
| 30 | 32 | 16 | 32 | 3- -2 |
| 28 | 30 | 15 | 30 | 3- -0 |
| 26 | 28 | 14 | 28 | 2- -8 |
| 24 | 26 | 13 | 26 | 2- -6 |
| 22 | 24 | 12 | 24 | 2- -4 |
| 20 | 22 | 11 | 22 | 2- -2 |
| 18 | 20 | 10 | 20 | 2- -0 |
| 16 | 18 | 9 | 18 | 1- -8 |
| 14 | 16 | 8 | 16 | 1- -6 |
| 12 | 14 | 7 | 14 | 1- -4 |
| 10 | 12 | 6 | 12 | 1- -2 |
| 8 | 10 | 5 | 10 | 1- -0 |
| 6 | 8 | 4 | 8 | -8 |
| 4 | 6 | 3 | 6 | -6 |
| 2 | 4 | 2 | 4 | -4 |

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS: mm

TOLERANCES UNLESS OTHERWISE SPECIFIED:
0 PLC ±
1 PLC ±0.1
2 PLC ±0.05
3 PLC ±
4 PLC ±
ANGLES ±2°

MATERIAL: SEE NOTES
FINISH: SEE NOTES

DWN RAKSHITH NAYAK 11FEB2016
CHK KARTHIK 14APR2016
APVD PRASHANTH 14APR2016
PRODUCT SPEC 108-64040
APPLICATION SPEC 114-64040
WEIGHT

TE Connectivity

NAME AMPMODU 2mm, BREAKAWAY HEADER DUAL ROW, VERTICAL

| SIZE | CAGE CODE | DRAWING NO | RESTRICTED TO |
|---|---|---|---|
| A2 | 00779 | C-2823110 | - |

CUSTOMER DRAWING | SCALE 5:1 | SHEET 3 OF 3 | REV A1

# Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

## TE Connectivity:

1-962915-1 1903112-2 1969656-1 2377783-2 2834055-1 MPT100C18RF 2310537-1 ROX05SJ18R TE50BR39J 141991-2 936348-1 CRGCQ2010J3K3 SBCHE154R7K SMW73R0JT 1393431-1 175977-2 CPF0402B37K4E1 SBCHE64R7K 1-794222-0 2380312-2 3631B101LL 3430B2F51RTDF 650075-000 917696-1 1743455-2 2-292161-3 U5254-000005-030PA 2005330-1 3-1393225-0 RH73H2A40MKTN