

AMPMODU 2 MM INTERCONNECTION SYSTEM

Quick Reference Guide

AMPMODU 2 MM INTERCONNECTION SYSTEM

TE Connectivity (TE)'s AMPMODU 2 mm interconnection system reliably and economically meets the requirements of today's miniature, sophisticated electronics. This system is ideal for space constrained environments and offers a wide portfolio with design features that enable reliable signal transfers in demanding applications.

TE's compact 2 mm design enables space savings, providing designers with greater overall flexibility.

The AMPMODU 2 mm system occupies 38% less space on a printed circuit board as compared to traditional 2.54 mm centerline connectors. This connector system is available in both board-to-board and wire-to-board mating options and utilizes a dual-beam contact design to enable 2 points of contact for increased signal reliability.

The AMPMODU 2 mm connection system is available in 4 types of plating options: 30 μ " [0.76 μ m] gold, 15 μ " [0.38 μ m] gold, 4 μ " [0.1 μ m] gold flash, and tin. All 2 mm board-mount connectors are offered in single and double row versions and vertical and horizontal orientations for both headers and receptacles. Surface mount and through-hole mounting options are available with the capability to support reflow solder processes up to 260°C.

Board-mount connectors can be packaged in tape and reel to support automated assembly processes, or in tubes, which may be ideal in manual assembly environments. AMPMODU 2 mm wire-to-board connectors are available without latches, and with detent or positive latches for high-vibrations applications that demand more secure electrical connections. Wire-mount receptacles are offered with two options for discrete wire termination - crimp snap-in contacts and insulation displacement contacts (IDC). Additionally, wire termination is easily accomplished with TE-designed application tooling.

The AMPMODU 2 mm interconnection system is the clear choice for demanding Industrial applications, offering a comprehensive, economical, and reliable connector portfolio.

FEATURES

- Centerline: 0.079" [2 mm]
- 0.020" [0.50 mm] square pins for headers
- Dual-beam receptacle contact
- Multiple solder tail lengths for various PCB thicknesses, 0.063" to 0.094" [1.6 mm to 2.4 mm]
- High temperature plastic (LCP) housing
- Board connectors available in tube and tape & reel packaging
- Up to 25 positions per row, single and dual row offering
- Wire termination: crimp and IDC
- Wire size:
 - Crimp contacts: AWG 30 - 24
 - IDC: AWG 30 - 26
- Environmental: UL94V0, low halogen

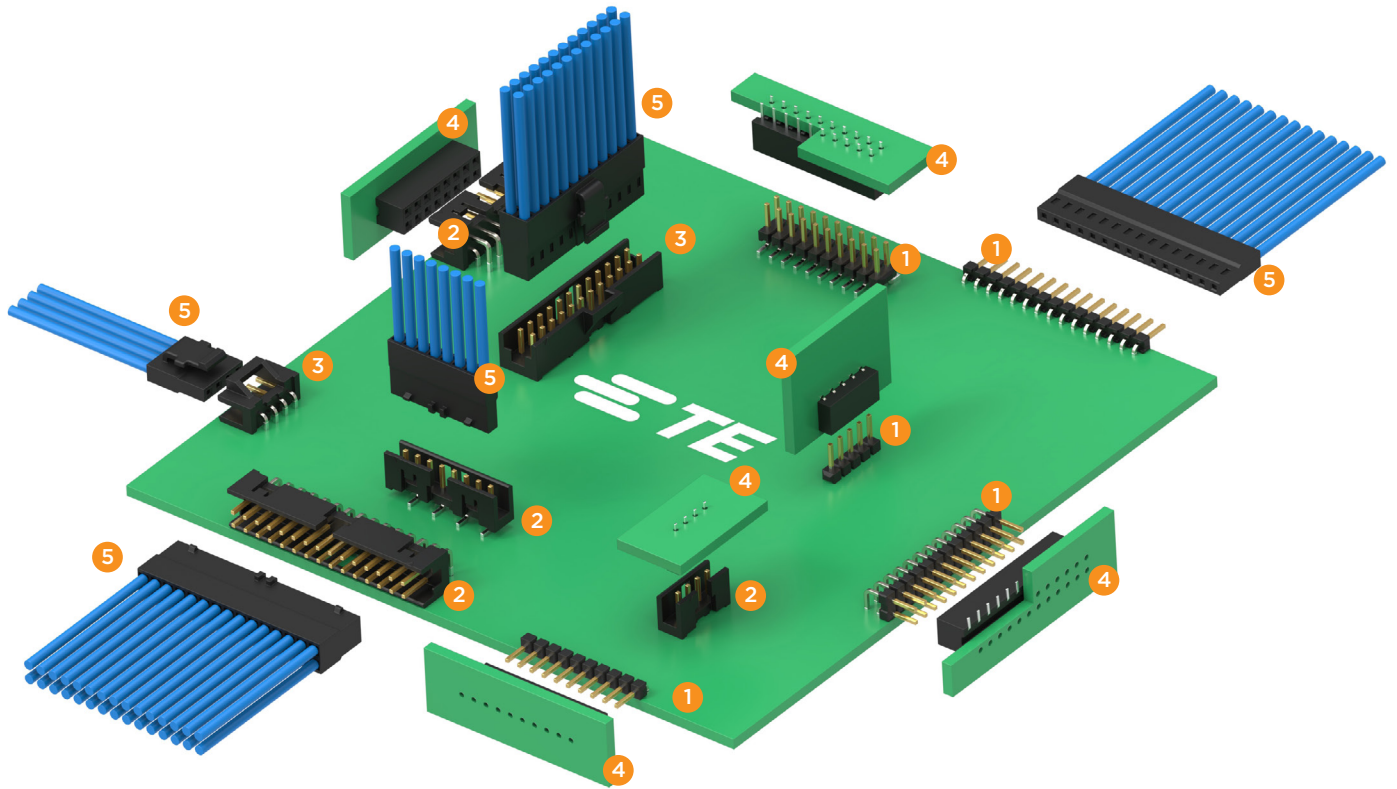
APPLICATIONS

- PLC
- I/O devices
- Servo drives
- Robotics
- Automated guided vehicles
- Material handling equipment
- Industrial controls
- Instrumentation and test equipment
- Building automation devices
- Medical equipment
- Energy storage systems

BENEFITS

- Occupies 38% less space on PCB board compared with 0.100" [2.54 mm] centerline
- Two-point electrical stability for reliable signal transfer
- Multiple options for Board-to-Board stacking by various header and receptacle combinations
- Ease of assembly with automated surface-mounting and through-hole reflow manufacturing
- Reliable connection in high vibration environments with detent and positive latching variants
- Ergonomic and easy mating/unmating process with positive latching variant
- Headers are intermateable with other major brand receptacles
- Design flexibility with various crimp terminal options
- Fast termination/installation without the need to strip the wire with IDC wire receptacles
- IDC and crimp receptacles mate with the same headers
- Interchangeable IDC and Crimp Snap-In contacts allow for easy replacement of damaged/faulty contacts

AMPMODU 2 MM INTERCONNECTION SYSTEM



| | | |
|---|--|--------------|
| 1 | BREAKAWAY HEADERS | Page 9 - 12 |
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AMPMODU 2 MM INTERCONNECTION SYSTEM

AMPMODU 2 MM INTERCONNECTION SYSTEM PERFORMANCE SPECIFICATIONS AND STANDARDS

MATERIALS

| | |
|-----------------|--|
| Housing | Liquid Crystal Polymer, UL 94V0, Black |
| Contact | Phosphor Bronze |
| Contact Plating | 30μ" [0.76 μm] Gold |
| | 15μ" [0.38 μm] Gold |
| | 4μ" [0.1 μm] Gold |
| | Tin |

ELECTRICAL

| | |
|---------------------------------|-----------------------------|
| Voltage Rating | 125 Vrms (max.) |
| Current Rating | 2 A (max.) |
| Operating Temperature | Tin Plating: -40 to +105°C |
| | Gold Plating: -40 to +125°C |
| Dielectric Withstanding Voltage | 650 VAC |
| Temperature Rise | 30°C@1.6A |

SPECIFICATIONS AND APPROVALS

| | |
|------------------------------|--|
| Certifications and Approvals | RoHS |
| | REACH |
| | cURus |
| Product Specification | Headers: <u>108-64040</u> |
| | Board Receptacles: <u>108-64040</u> |
| | Crimp Snap-In Receptacles: <u>108-64040-1</u> |
| | IDC Receptacles: <u>108-64040-2</u> |
| Application Specification | Headers: <u>114-64040</u> |
| | Board Receptacles: <u>114-32186</u> |
| | Crimp Snap-In Receptacles: <u>114-32173</u> |
| | IDC Receptacles: <u>114-32175</u> |

MECHANICAL

| | |
|---|---|
| Durability | 30μ" [0.76 μm] Gold: 250 cycles |
| | 15μ" [0.38 μm] Gold: 100 cycles |
| | 4μ" [0.1 μm] Gold: 50 cycles Tin: 25 cycles |
| Connector Mating/ Unmating Force | Mating: 2.2 N max. |
| | Unmating: 0.2 N min. |
| Contact Retention Force in Housing (Board Connectors) | 5 N min. |
| Contact Retention Force in Housing (Wire Receptacles) | 10 N min. |
| Vibration | No electrical discontinuity greater than 1 microsecond under 10-55-10 Hz traversed in minute at 1.52 mm amplitude |
| Shock | No electrical discontinuity greater than 1 microsecond by 50 G acceleration |
| Latch Durability | 25 cycles |
| Positive Latch Engage/Disengage Force (without Contacts) | Engage: 6 N max. |
| | Disengage: 20 N min. |
| Solderability | Reflow Solderable, Capable up to 260°C |

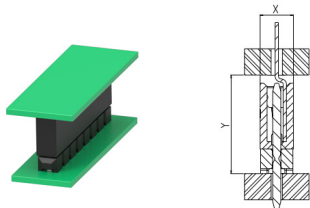
AMPMODU 2 MM INTERCONNECTION SYSTEM

CONFIGURATIONS

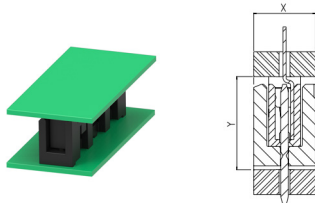
| Headers | | |
|---|--|---|
| A BREAKAWAY VERTICAL TH | B BREAKAWAY VERTICAL SMT | C BREAKAWAY HORIZONTAL TH |
| D SHROUDED W/ DETENT LATCHES VERTICAL TH | E SHROUDED W/ DETENT LATCHES VERTICAL SMT | F SHROUDED W/ DETENT LATCHES HORIZONTAL TH |
| G SHROUDED W/ POSITIVE LATCH VERTICAL TH | H SHROUDED W/ POSITIVE LATCH VERTICAL SMT | J SHROUDED W/ POSITIVE LATCH HORIZONTAL TH |

| Receptacles | | | |
|---|---|---|--|
| 1 BOARD VERTICAL TH | 2 BOARD VERTICAL SMT | 3 BOARD HORIZONTAL TH | 4 BOARD HORIZONTAL SMT |
| 5 WIRE (CRIMP/IDC) STANDARD | 6 WIRE (CRIMP/IDC) W/ DETENT LATCHES | 7 WIRE (CRIMP/IDC) W/ POSITIVE LATCH | |

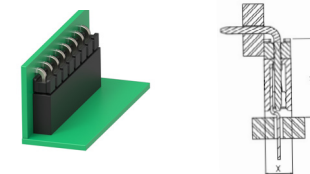
BOARD-TO-BOARD



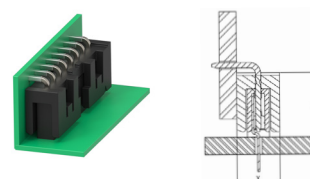
| Application | | X (Single Row) | X (Double Row) | Y |
|--|------------|------------------|------------------|------------------|
| Parallel boards - vertical board receptacle and vertical shrouded header | A 1 | 0.083" [2.10 mm] | 0.161" [4.10 mm] | 0.236" [6.00 mm] |
| | B 1 | 0.083" [2.10 mm] | 0.161" [4.10 mm] | 0.285" [7.25 mm] |
| | A 2 | 0.083" [2.10 mm] | 0.161" [4.10 mm] | 0.244" [6.20 mm] |
| | B 2 | 0.083" [2.10 mm] | 0.161" [4.10 mm] | 0.293" [7.45 mm] |



| Application | | X (Single Row) | X (Double Row) | Y |
|--|------------|------------------|------------------|------------------|
| Parallel boards - vertical board receptacle and vertical shrouded header | D 1 | 0.157" [4.00 mm] | 0.244" [6.20 mm] | 0.236" [6.00 mm] |
| | E 1 | 0.157" [4.00 mm] | 0.244" [6.20 mm] | 0.285" [7.25 mm] |
| | D 2 | 0.157" [4.00 mm] | 0.244" [6.20 mm] | 0.244" [6.20 mm] |
| | E 2 | 0.157" [4.00 mm] | 0.244" [6.20 mm] | 0.293" [7.45 mm] |



| Application | | X (Single Row) | X (Double Row) | Y |
|--|------------|------------------|------------------|------------------|
| Perpendicular boards - vertical board receptacle and horizontal breakaway header | C 1 | 0.083" [2.10 mm] | 0.161" [4.10 mm] | 0.236" [6.00 mm] |
| | C 2 | 0.083" [2.10 mm] | 0.161" [4.10 mm] | 0.244" [6.20 mm] |

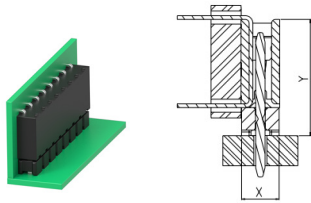


| Application | | X (Single Row) | X (Double Row) | Y |
|---|------------|------------------|------------------|------------------|
| Perpendicular boards - vertical board receptacle and horizontal shrouded header | F 1 | 0.157" [4.00 mm] | 0.244" [6.20 mm] | 0.236" [6.00 mm] |
| | F 2 | 0.157" [4.00 mm] | 0.244" [6.20 mm] | 0.244" [6.20 mm] |

AMPMODU 2 MM INTERCONNECTION SYSTEM

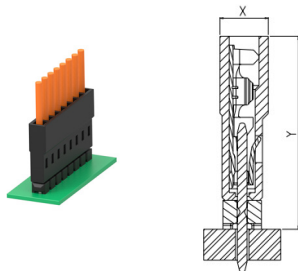
CONFIGURATIONS - CONTINUED

BOARD-TO-BOARD

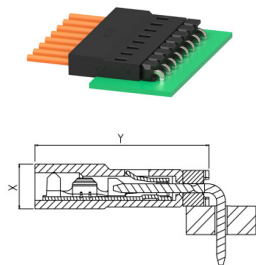


| Application | | X (Single Row) | X (Double Row) | Y |
|---|-----|------------------|------------------|------------------|
| Perpendicular boards - horizontal board receptacle and vertical breakaway header | A 3 | 0.083" [2.10 mm] | 0.161" [4.10 mm] | 0.244" [6.20 mm] |
| | B 3 | 0.083" [2.10 mm] | 0.161" [4.10 mm] | 0.293" [7.45 mm] |
| | A 4 | 0.093" [2.35 mm] | 0.172" [4.36 mm] | 0.244" [6.20 mm] |
| | B 4 | 0.093" [2.35 mm] | 0.172" [4.36 mm] | 0.293" [7.45 mm] |

WIRE-TO-BOARD



| Application | | Crimp | | IDC | |
|-------------|------------------|---|-------------------|------------------|-------------------|
| Application | Row | X | Y | X | Y |
| | | Perpendicular to PCB - non-latching solution - breakaway header and standard wire receptacle (no latches) | Single row | 0.099" [2.51 mm] | 0.394" [10.00 mm] |
| Double row | 0.185" [4.70 mm] | | 0.394" [10.00 mm] | - | - |
| A 5 | Single row | 0.099" [2.51 mm] | 0.443" [11.25 mm] | 0.094" [2.4 mm] | 0.62" [15.75 mm] |
| | Double row | 0.185" [4.70 mm] | 0.443" [11.25 mm] | - | - |

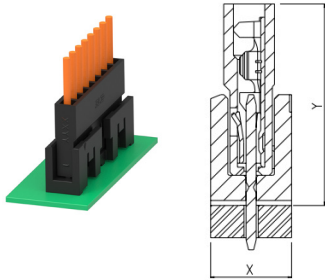


| Application | | Crimp | | IDC | |
|-------------|------------------|--|-------------------|------------------|-------------------|
| Application | Row | X | Y | X | Y |
| | | Parallel to PCB - non-latching solution - breakaway header and standard wire receptacle (no latches) | Single row | 0.099" [2.51 mm] | 0.394" [10.00 mm] |
| Double row | 0.185" [4.70 mm] | | 0.394" [10.00 mm] | - | - |

AMPMODU 2 MM INTERCONNECTION SYSTEM

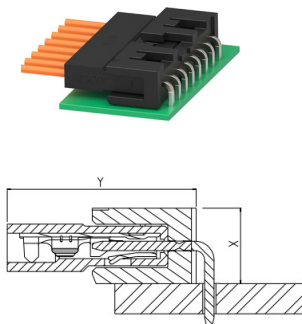
CONFIGURATIONS - CONTINUED

WIRE-TO-BOARD



| Application | Row | Crimp | | IDC | |
|--|------------|---------------------|----------------------|---------------------|---------------------|
| | | X | Y | X | Y |
| Perpendicular to PCB - non-latching solution - shrouded header with detent latches and standard wire receptacle (no latches) | Single row | 0.157" [4.00 mm] | 0.394" [10.00 mm] | 0.157" [4.00 mm] | 0.57" [14.50 mm] |
| | Double row | 0.244" [6.20 mm] | 0.394" [10.00 mm] | - | - |
| D 5 | Single row | 0.157" [4.00 mm] | 0.443" [11.25 mm] | 0.157" [4.00 mm] | 0.62" [15.75 mm] |
| | Double row | 0.244" [6.20 mm] | 0.443" [11.25 mm] | - | - |

| Application | Row | Crimp | | IDC | |
|---|------------|---------------------|----------------------|---------------------|---------------------|
| | | X | Y | X | Y |
| Perpendicular to PCB - detent latching solutions - shrouded header with detent latches and wire receptacle with detent latches | Single row | 0.157" [4.00 mm] | 0.394" [10.00 mm] | 0.157" [4.00 mm] | .57" [14.50 mm] |
| | Double row | 0.244" [6.20 mm] | 0.394" [10.00 mm] | - | - |
| D 6 | Single row | 0.157" [4.00 mm] | 0.443" [11.25 mm] | 0.157" [4.00 mm] | 0.62" [15.75 mm] |
| | Double row | 0.244" [6.20 mm] | 0.443" [11.25 mm] | - | - |



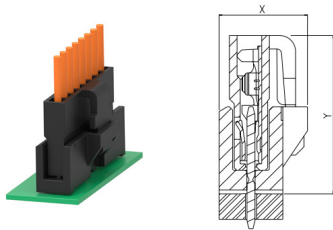
| Application | Row | Crimp | | IDC | |
|--|------------|---------------------|----------------------|---------------------|---------------------|
| | | X | Y | X | Y |
| Parallel to PCB - non-latching solution - shrouded header with detent latches and standard wire receptacle (no latches) | Single row | 0.157" [4.00 mm] | 0.394" [10.00 mm] | 0.157" [4.00 mm] | 0.57" [14.50 mm] |
| | Double row | 0.244" [6.20 mm] | 0.394" [10.00 mm] | - | - |
| F 5 | Single row | 0.157" [4.00 mm] | 0.394" [10.00 mm] | 0.157" [4.00 mm] | 0.57" [14.50 mm] |
| | Double row | 0.244" [6.20 mm] | 0.394" [10.00 mm] | - | - |

| Application | Row | Crimp | | IDC | |
|--|------------|---------------------|----------------------|---------------------|---------------------|
| | | X | Y | X | Y |
| Parallel to PCB - detent latching solution - shrouded header with detent latches and wire receptacle with detent latches | Single row | 0.157" [4.00 mm] | 0.394" [10.00 mm] | 0.157" [4.00 mm] | 0.57" [14.50 mm] |
| | Double row | 0.244" [6.20 mm] | 0.394" [10.00 mm] | - | - |
| F 6 | Single row | 0.157" [4.00 mm] | 0.394" [10.00 mm] | 0.157" [4.00 mm] | 0.57" [14.50 mm] |
| | Double row | 0.244" [6.20 mm] | 0.394" [10.00 mm] | - | - |

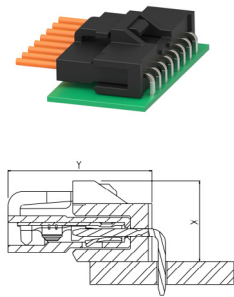
AMPMODU 2 MM INTERCONNECTION SYSTEM

CONFIGURATIONS - CONTINUED

WIRE-TO-BOARD



| Application | Row | Crimp | | IDC | |
|--|------------|---------------------|----------------------|---------------------|---------------------|
| | | X | Y | X | Y |
| Perpendicular to PCB - positive latching solution - shrouded header with positive latch wire and wire receptacle with positive latch | Single row | 0.218" [5.54 mm] | 0.394" [10.00 mm] | 0.218" [5.54 mm] | 0.57" [14.50 mm] |
| | Double row | 0.305" [7.74 mm] | 0.394" [10.00 mm] | - | - |
| G 7 | Single row | 0.218" [5.54 mm] | 0.443" [11.25 mm] | 0.218" [5.54 mm] | 0.62" [15.75 mm] |
| | Double row | 0.305" [7.74 mm] | 0.443" [11.25 mm] | - | - |



| Application | Row | Crimp | | IDC | |
|--|------------|---------------------|----------------------|---------------------|---------------------|
| | | X | Y | X | Y |
| Parallel to PCB - positive latching solution - shrouded header with positive latch and wire receptacle with positive latch | Single row | 0.218" [5.54 mm] | 0.394" [10.00 mm] | 0.218" [5.54 mm] | 0.57" [14.50 mm] |
| | Double row | 0.305" [7.74 mm] | 0.394" [10.00 mm] | - | - |
| J 7 | Single row | 0.218" [5.54 mm] | 0.443" [11.25 mm] | 0.218" [5.54 mm] | 0.62" [15.75 mm] |
| | Double row | 0.305" [7.74 mm] | 0.443" [11.25 mm] | - | - |

AMPMODU 2 MM INTERCONNECTION SYSTEM

BREAKAWAY HEADERS

SMART PART NUMBER DEFINITION



PRODUCT SERIES

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

GENDER / TYPE

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

NUMBER OF ROWS

| | |
|----------|------------|
| S | Single row |
| D | Double row |

NUMBER OF PINS PER ROW

| | |
|-----------|--|
| ## | 02 thru 25 per row (enter two digits) |
|-----------|--|

ORIENTATION & TERMINATION

| | |
|-----------|-------------------------|
| VT | Vertical through hole |
| VS | Vertical surface mount |
| HT | Horizontal through hole |

*see table DESIGN NAVIGATOR for guidance

PACKAGING

| | |
|------------|--|
| TB | Tube without cap |
| TBP | Tube with cap (N/A for 2 and 3 positions per row) |
| TRP | Tape and reel with cap |

*select allowable Packaging from table DESIGN NAVIGATOR

PLATING

| | |
|----------|--------------------------------|
| T | Tin |
| F | 4μ" [0.1 μm] Gold (gold flash) |
| M | 15μ" [0.38 μm] Gold |
| H | 30μ" [0.76 μm] Gold |

TAIL LENGTH

| | |
|-----------|-----------------------|
| 00 | N/A for surface mount |
| 01 | 0.087" [2.2 mm] |
| 02 | 0.110" [2.8 mm] |

*select allowable Tail Length from table DESIGN NAVIGATOR

SMART PN EXAMPLES

- AMPMODU 2 mm, breakaway header, double row, 20 positions (2 x 10), vertical surface mount, tail length: N/A, tin, T&R with cap: **2MM-HB-D10-VS-00-T-TRP**




DESIGN NAVIGATOR

| | Orientation & Termination | Tail Length | | Packaging |
|----|---------------------------|-------------|-----------------|-----------|
| VT | | 01 | 0.087" [2.2 mm] | TB |
| | | | | TBP |
| | | TRP | | |
| VS | | 02 | 0.110" [2.8 mm] | TB |
| | | | | TBP |
| | | TRP | | |
| VS | | 00 | - | TRP |
| | | | | TBP |
| | | | | |
| HT | | 01 | 0.087" [2.2 mm] | TB |
| | | | | TBP |
| | | | | TRP |
| | | 02 | 0.110" [2.8 mm] | TB |
| | | | | TBP |
| | | | | TRP |

AMPMODU 2 MM INTERCONNECTION SYSTEM

BREAKAWAY HEADERS




SINGLE ROW

| Product Type | Drawing Number | Solder Lead Length | Base Number / Smart Part Number | | | | Packaging | Available Positions |
|---|----------------|--------------------|---------------------------------|------------------------------|--------------------------------|--------------------------------|--------------|---------------------|
| | | | Tin | 4 μ " [0.1 μ m] Gold | 15 μ " [0.38 μ m] Gold | 30 μ " [0.76 μ m] Gold | | |
| Vertical Through Hole  | 2823074 | 0.087" [2.2mm] | 2823074 | 2823078 | 2823082 | 2823086 | Tube w/o cap | 2-25 |
| | | | 2MM-HB-SXX-VT-01-T-TB | 2MM-HB-SXX-VT-01-F-TB | 2MM-HB-SXX-VT-01-M-TB | 2MM-HB-SXX-VT-01-H-TB | | |
| | | | 2823651 | 2823652 | 2823653 | 2823654 | Tube w/ cap | 3-25 |
| | | | 2MM-HB-SXX-VT-01-T-TBP | 2MM-HB-SXX-VT-01-F-TBP | 2MM-HB-SXX-VT-01-M-TBP | 2MM-HB-SXX-VT-01-H-TBP | | |
| | | | 2823465 | 2823466 | 2823467 | 2823468 | T&R w/ cap | 2-25 |
| | | | 2MM-HB-SXX-VT-01-T-TRP | 2MM-HB-SXX-VT-01-F-TRP | 2MM-HB-SXX-VT-01-M-TRP | 2MM-HB-SXX-VT-01-H-TRP | | |
| | | 0.110" [2.8mm] | 2823076 | 2823080 | 2823084 | 2823088 | Tube w/o cap | 2-25 |
| | | | 2MM-HB-SXX-VT-02-T-TB | 2MM-HB-SXX-VT-02-F-TB | 2MM-HB-SXX-VT-02-M-TB | 2MM-HB-SXX-VT-02-H-TB | | |
| | | | 2823655 | 2823656 | 2823657 | 2823658 | Tube w/ cap | 3-25 |
| | | | 2MM-HB-SXX-VT-02-T-TBP | 2MM-HB-SXX-VT-02-F-TBP | 2MM-HB-SXX-VT-02-M-TBP | 2MM-HB-SXX-VT-02-H-TBP | | |
| | | | 2823469 | 2823470 | 2823471 | 2823472 | T&R w/ cap | 2-25 |
| | | | 2MM-HB-SXX-VT-02-T-TRP | 2MM-HB-SXX-VT-02-F-TRP | 2MM-HB-SXX-VT-02-M-TRP | 2MM-HB-SXX-VT-02-H-TRP | | |
| Horizontal Through Hole  | 2823090 | 0.087" [2.2mm] | 2823090 | 2823094 | 2823098 | 2823102 | Tube w/o cap | 2-25 |
| | | | 2MM-HB-SXX-HT-01-T-TB | 2MM-HB-SXX-HT-01-F-TB | 2MM-HB-SXX-HT-01-M-TB | 2MM-HB-SXX-HT-01-H-TB | | |
| | | | 2823671 | 2823672 | 2823673 | 2823674 | Tube w/ cap | 3-25 |
| | | | 2MM-HB-SXX-HT-01-T-TBP | 2MM-HB-SXX-HT-01-F-TBP | 2MM-HB-SXX-HT-01-M-TBP | 2MM-HB-SXX-HT-01-H-TBP | | |
| | | | 2823481 | 2823482 | 2823483 | 2823484 | T&R w/ cap | 2-25 |
| | | | 2MM-HB-SXX-HT-01-T-TRP | 2MM-HB-SXX-HT-01-F-TRP | 2MM-HB-SXX-HT-01-M-TRP | 2MM-HB-SXX-HT-01-H-TRP | | |
| | | 0.110" [2.8mm] | 2823092 | 2823096 | 2823100 | 2823104 | Tube w/o cap | 2-25 |
| | | | 2MM-HB-SXX-HT-02-T-TB | 2MM-HB-SXX-HT-02-F-TB | 2MM-HB-SXX-HT-02-M-TB | 2MM-HB-SXX-HT-02-H-TB | | |
| | | | 2823683 | 2823684 | 2823685 | 2823686 | Tube w/ cap | 3-25 |
| | | | 2MM-HB-SXX-HT-02-T-TBP | 2MM-HB-SXX-HT-02-F-TBP | 2MM-HB-SXX-HT-02-M-TBP | 2MM-HB-SXX-HT-02-H-TBP | | |
| | | | 2823485 | 2823486 | 2823487 | 2823488 | T&R w/ cap | 2-25 |
| | | | 2MM-HB-SXX-HT-02-T-TRP | 2MM-HB-SXX-HT-02-F-TRP | 2MM-HB-SXX-HT-02-M-TRP | 2MM-HB-SXX-HT-02-H-TRP | | |
| Vertical Surface Mount  | 2823106 | - | 2823106 | 2823107 | 2823108 | 2823109 | T&R w/ cap | 2-25 |
| | | | 2MM-HB-SXX-VS-00-T-TRP | 2MM-HB-SXX-VS-00-F-TRP | 2MM-HB-SXX-VS-00-M-TRP | 2MM-HB-SXX-VS-00-H-TRP | | |
| | | | 2823659 | 2823660 | 2823661 | 2823662 | Tube w/ cap | 3-25 |
| | | | 2MM-HB-SXX-VS-00-T-TBP | 2MM-HB-SXX-VS-00-F-TBP | 2MM-HB-SXX-VS-00-M-TBP | 2MM-HB-SXX-VS-00-H-TBP | | |

AMPMODU 2 MM INTERCONNECTION SYSTEM

BREAKAWAY HEADERS

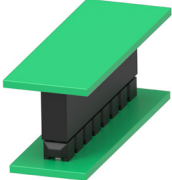

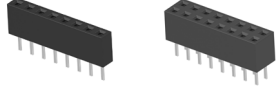

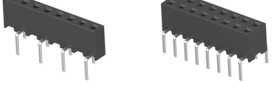
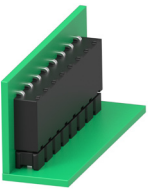
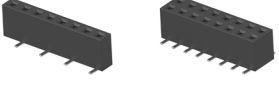

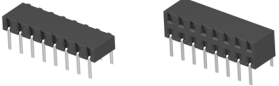
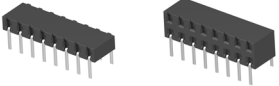
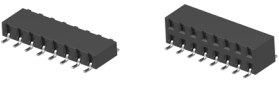

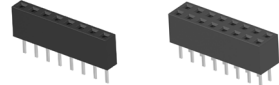

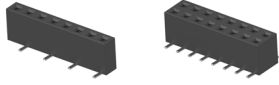

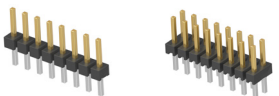
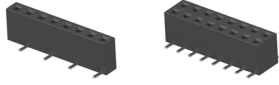
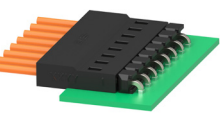
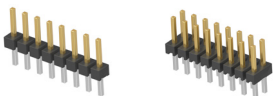

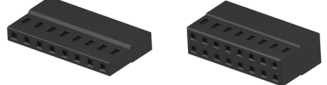

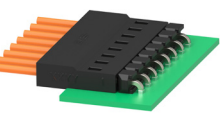

DOUBLE ROW

| Product Type | Drawing Number | Solder Lead Length | Base Number / Smart Part Number | | | | Packaging | Available Positions | | |
|---|------------------------|--|---------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|--------------|------|
| | | | Tin | 4μ" [0.1μm] Gold | 15μ" [0.38μm] Gold | 30μ" [0.76μm] Gold | | | | |
|  Vertical Through Hole | 2823110 | 0.087" [2.2mm] | 2823110 | 2823114 | 2823118 | 2823122 | Tube w/o cap | 4-50 | | |
| | | | 2MM-HB-DXX-VT-01-T-TB | 2MM-HB-DXX-VT-01-F-TB | 2MM-HB-DXX-VT-01-M-TB | 2MM-HB-DXX-VT-01-H-TB | | | | |
| | | | 2823739 | 2823740 | 2823741 | 2823742 | Tube w/ cap | 6-50 | | |
| | | | 2MM-HB-DXX-VT-01-T-TBP | 2MM-HB-DXX-VT-01-F-TBP | 2MM-HB-DXX-VT-01-M-TBP | 2MM-HB-DXX-VT-01-H-TBP | | | | |
| | | | 2823473 | 2823474 | 2823475 | 2823476 | T&R w/ cap | 4-50 | | |
| | | | 2MM-HB-DXX-VT-01-T-TRP | 2MM-HB-DXX-VT-01-F-TRP | 2MM-HB-DXX-VT-01-M-TRP | 2MM-HB-DXX-VT-01-H-TRP | | | | |
| | | 0.110" [2.8mm] | 2823112 | 2823116 | 2823120 | 2823124 | Tube w/o cap | 4-50 | | |
| | | | 2MM-HB-DXX-VT-02-T-TB | 2MM-HB-DXX-VT-02-F-TB | 2MM-HB-DXX-VT-02-M-TB | 2MM-HB-DXX-VT-02-H-TB | | | | |
| | | | 2823755 | 2823756 | 2823757 | 2823758 | Tube w/ cap | 6-50 | | |
| | | | 2MM-HB-DXX-VT-02-T-TBP | 2MM-HB-DXX-VT-02-F-TBP | 2MM-HB-DXX-VT-02-M-TBP | 2MM-HB-DXX-VT-02-H-TBP | | | | |
| | | | 2823477 | 2823478 | 2823479 | 2823480 | T&R w/ cap | 4-50 | | |
| | | | 2MM-HB-DXX-VT-02-T-TRP | 2MM-HB-DXX-VT-02-F-TRP | 2MM-HB-DXX-VT-02-M-TRP | 2MM-HB-DXX-VT-02-H-TRP | | | | |
| | |  Horizontal Through Hole | 2823126 | 0.087" [2.2mm] | 2823126 | 2823130 | 2823134 | 2823138 | Tube w/o cap | 4-50 |
| | | | | | 2MM-HB-DXX-HT-01-T-TB | 2MM-HB-DXX-HT-01-F-TB | 2MM-HB-DXX-HT-01-M-TB | 2MM-HB-DXX-HT-01-H-TB | | |
| 2823763 | 2823764 | | | | 2823765 | 2823766 | Tube w/ cap | 6-50 | | |
| 2MM-HB-DXX-HT-01-T-TBP | 2MM-HB-DXX-HT-01-F-TBP | | | | 2MM-HB-DXX-HT-01-M-TBP | 2MM-HB-DXX-HT-01-H-TBP | | | | |
| 2823489 | 2823490 | | | | 2823491 | 2823492 | T&R w/ cap | 4-50 | | |
| 2MM-HB-DXX-HT-01-T-TRP | 2MM-HB-DXX-HT-01-F-TRP | | | | 2MM-HB-DXX-HT-01-M-TRP | 2MM-HB-DXX-HT-01-H-TRP | | | | |
| 0.110" [2.8mm] | 2823128 | | | 2823132 | 2823136 | 2823140 | Tube w/o cap | 4-50 | | |
| | 2MM-HB-DXX-HT-02-T-TB | | | 2MM-HB-DXX-HT-02-F-TB | 2MM-HB-DXX-HT-02-M-TB | 2MM-HB-DXX-HT-02-H-TB | | | | |
| | 2823779 | | | 2823780 | 2823781 | 2823782 | Tube w/ cap | 6-50 | | |
| | 2MM-HB-DXX-HT-02-T-TBP | | | 2MM-HB-DXX-HT-02-F-TBP | 2MM-HB-DXX-HT-02-M-TBP | 2MM-HB-DXX-HT-02-H-TBP | | | | |
| | 2823493 | | | 2823494 | 2823495 | 2823496 | T&R w/ cap | 4-50 | | |
| | 2MM-HB-DXX-HT-02-T-TRP | | | 2MM-HB-DXX-HT-02-F-TRP | 2MM-HB-DXX-HT-02-M-TRP | 2MM-HB-DXX-HT-02-H-TRP | | | | |
|  Vertical Surface Mount | 2823142 | | | - | 2823142 | 2823143 | 2823144 | 2823145 | T&R w/ cap | 4-50 |
| | | | | | 2MM-HB-DXX-VS-00-T-TRP | 2MM-HB-DXX-VS-00-F-TRP | 2MM-HB-DXX-VS-00-M-TRP | 2MM-HB-DXX-VS-00-H-TRP | | |
| | | 2823787 | 2823788 | | 2823789 | 2823790 | Tube w/ cap | 6-50 | | |
| | | 2MM-HB-DXX-VS-00-T-TBP | 2MM-HB-DXX-VS-00-F-TBP | | 2MM-HB-DXX-VS-00-M-TBP | 2MM-HB-DXX-VS-00-H-TBP | | | | |

AMPMODU 2 MM INTERCONNECTION SYSTEM

BREAKAWAY HEADERS

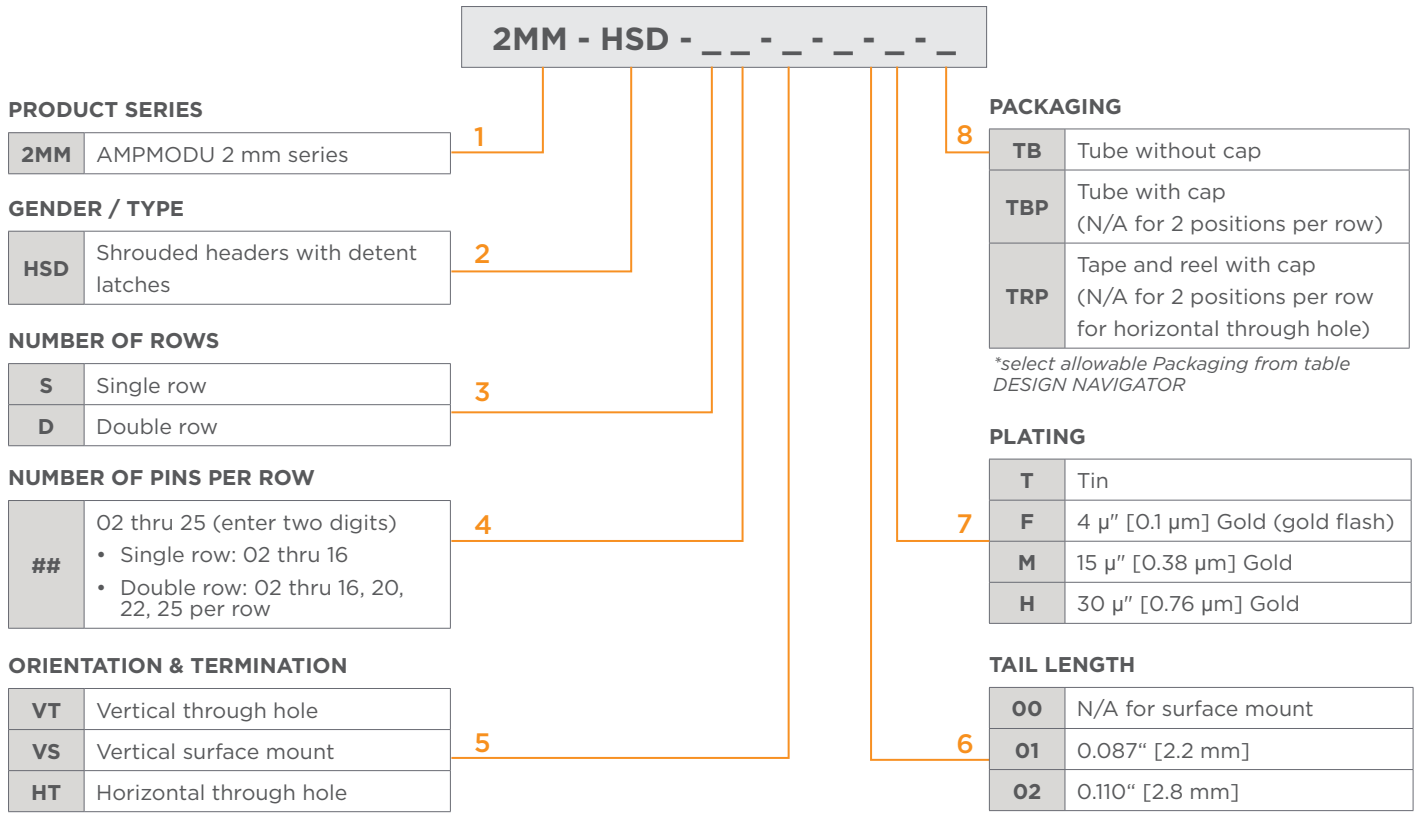
MATEABLE PARTS

| Breakaway Headers | | B-t-B Orientation | Mateable Receptacles | | | |
|--|--|--|---|---|--|------------|
| Vertical Orientation | | Parallel  | Vertical Board Receptacles | | Page 15-16 | |
| 2MM - HB - __ - VT  | | | 2MM - R - __ - VT | |  | |
| 2MM - HB - __ - VTR  | | | 2MM - R - __ - VTR | |  | |
| 2MM - HB - __ - VS  | | Perpendicular  | Vertical Board Receptacles | | Page 15-16 | |
| 2MM - HB - __ - HT  | | | 2MM - R - __ - HT | |  | |
| 2MM - HB - __ - HS  | | | 2MM - R - __ - HS | |  | |
| Horizontal Orientation | | Perpendicular  | Vertical Board Receptacles | | Page 15-16 | |
| 2MM - HB - __ - VT  | | | 2MM - R - __ - VT | |  | |
| 2MM - HB - __ - VTR  | | | 2MM - R - __ - VTR | |  | |
| 2MM - HB - __ - VS  | | 2MM - R - __ - VS | |  | | |
| Breakaway Headers | | W-t-B Orientation | Mateable Receptacles | | | |
| Vertical Orientation | |  | Crimp Receptacles | Page 17-19 | IDC Receptacles | Page 20-22 |
| 2MM - HB - __ - VT  | | | 2MM - RC - __ | | 2MM - RD- __ <i>Single row Only</i> | |
| 2MM - HB - __ - VS  | | | Standard (No Latches)  | | Standard (No Latches)  | |
| Horizontal Orientation | |  | | | | |
| 2MM - HB - __ - HT  | | | | | | |

AMPMODU 2 MM INTERCONNECTION SYSTEM

SHROUDED HEADERS - WITH DETENT LATCHES

SMART PART NUMBER DEFINITION



*see table DESIGN NAVIGATOR for guidance

SMART PN EXAMPLES

- AMPMODU 2 mm, shrouded header with detent latches, single row, 8 positions (1 x 8), horizontal through hole, 2.8 mm tail length, 15μ" [0.38μm] gold, tube without cap: **2MM-HSD-S08-HT-02-M-TB**

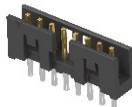


DESIGN NAVIGATOR

| Orientation & Termination | | Tail Length | | Packaging |
|---------------------------|--|-------------|-----------------|-----------|
| VT | | 01 | 0.087" [2.2 mm] | TB |
| | | | | TBP |
| VS | | 00 | - | TRP |
| | | | | TBP |
| HT | | 01 | 0.087" [2.2 mm] | TRP |
| | | | | TB |
| | | | | TBP |
| | | 02 | 0.110" [2.8 mm] | TB |
| | | | | TBP |
| | | | | TRP |

AMPMODU 2 MM INTERCONNECTION SYSTEM

SHROUDED HEADERS - WITH DETENT LATCHES




SINGLE ROW

| Product Type | Drawing Number | Solder Lead Length | Base Number / Smart Part Number | | | | Packaging | Available Positions | | |
|--|-------------------------|---|---------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|--------------|------|
| | | | Tin | 4μ" [0.1μm] Gold | 15μ" [0.38μm] Gold | 30μ" [0.76μm] Gold | | | | |
| Vertical Through Hole  | 2823372 | 0.087" [2.2mm] | 2823372 | 2823375 | 2823378 | 2823381 | Tube w/o cap | 2-16 | | |
| | | | 2MM-HSD-SXX-VT-01-T-TB | 2MM-HSD-SXX-VT-01-F-TB | 2MM-HSD-SXX-VT-01-M-TB | 2MM-HSD-SXX-VT-01-H-TB | | | | |
| | | | 2823839 | 2823840 | 2823841 | 2823842 | Tube w/ cap | 3-16 | | |
| | | | 2MM-HSD-SXX-VT-01-T-TBP | 2MM-HSD-SXX-VT-01-F-TBP | 2MM-HSD-SXX-VT-01-M-TBP | 2MM-HSD-SXX-VT-01-H-TBP | | | | |
| | | | 2823497 | 2823498 | 2823499 | 2823500 | T&R w/ cap | 2-16 | | |
| | | | 2MM-HSD-SXX-VT-01-T-TRP | 2MM-HSD-SXX-VT-01-F-TRP | 2MM-HSD-SXX-VT-01-M-TRP | 2MM-HSD-SXX-VT-01-H-TRP | | | | |
| | | 0.110" [2.8mm] | 2823373 | 2823376 | 2823379 | 2823382 | Tube w/o cap | 2-16 | | |
| | | | 2MM-HSD-SXX-VT-02-T-TB | 2MM-HSD-SXX-VT-02-F-TB | 2MM-HSD-SXX-VT-02-M-TB | 2MM-HSD-SXX-VT-02-H-TB | | | | |
| | | | 2823847 | 2823848 | 2823849 | 2823850 | Tube w/ cap | 3-16 | | |
| | | | 2MM-HSD-SXX-VT-02-T-TBP | 2MM-HSD-SXX-VT-02-F-TBP | 2MM-HSD-SXX-VT-02-M-TBP | 2MM-HSD-SXX-VT-02-H-TBP | | | | |
| | | | 2823501 | 2823502 | 2823503 | 2823504 | T&R w/ cap | 2-16 | | |
| | | | 2MM-HSD-SXX-VT-02-T-TRP | 2MM-HSD-SXX-VT-02-F-TRP | 2MM-HSD-SXX-VT-02-M-TRP | 2MM-HSD-SXX-VT-02-H-TRP | | | | |
| | | Horizontal Through Hole  | 2823384 | 0.087" [2.2mm] | 2823384 | 2823387 | 2823390 | 2823393 | Tube w/o cap | 2-16 |
| | | | | | 2MM-HSD-SXX-HT-01-T-TB | 2MM-HSD-SXX-HT-01-F-TB | 2MM-HSD-SXX-HT-01-M-TB | 2MM-HSD-SXX-HT-01-H-TB | | |
| 2823855 | 2823856 | | | | 2823857 | 2823858 | Tube w/ cap | 3-16 | | |
| 2MM-HSD-SXX-HT-01-T-TBP | 2MM-HSD-SXX-HT-01-F-TBP | | | | 2MM-HSD-SXX-HT-01-M-TBP | 2MM-HSD-SXX-HT-01-H-TBP | | | | |
| 2823513 | 2823514 | | | | 2823515 | 2823516 | T&R w/ cap | 3-16 | | |
| 2MM-HSD-SXX-HT-01-T-TRP | 2MM-HSD-SXX-HT-01-F-TRP | | | | 2MM-HSD-SXX-HT-01-M-TRP | 2MM-HSD-SXX-HT-01-H-TRP | | | | |
| 0.110" [2.8mm] | 2823385 | | | 2823388 | 2823391 | 2823394 | Tube w/o cap | 2-16 | | |
| | 2MM-HSD-SXX-HT-02-T-TB | | | 2MM-HSD-SXX-HT-02-F-TB | 2MM-HSD-SXX-HT-02-M-TB | 2MM-HSD-SXX-HT-02-H-TB | | | | |
| | 2823863 | | | 2823864 | 2823865 | 2823866 | Tube w/ cap | 3-16 | | |
| | 2MM-HSD-SXX-HT-02-T-TBP | | | 2MM-HSD-SXX-HT-02-F-TBP | 2MM-HSD-SXX-HT-02-M-TBP | 2MM-HSD-SXX-HT-02-H-TBP | | | | |
| | 2823517 | | | 2823518 | 2823519 | 2823520 | T&R w/ cap | 3-16 | | |
| | 2MM-HSD-SXX-HT-02-T-TRP | | | 2MM-HSD-SXX-HT-02-F-TRP | 2MM-HSD-SXX-HT-02-M-TRP | 2MM-HSD-SXX-HT-02-H-TRP | | | | |
| Vertical Surface Mount  | 2823396 | | | - | 2823396 | 2823397 | 2823398 | 2823399 | T&R w/ cap | 2-16 |
| | | | | | 2MM-HSD-SXX-VS-00-T-TRP | 2MM-HSD-SXX-VS-00-F-TRP | 2MM-HSD-SXX-VS-00-M-TRP | 2MM-HSD-SXX-VS-00-H-TRP | | |
| | | 2823871 | 2823872 | | 2823873 | 2823874 | Tube w/ cap | 3-16 | | |
| | | 2MM-HSD-SXX-VS-00-T-TBP | 2MM-HSD-SXX-VS-00-F-TBP | | 2MM-HSD-SXX-VS-00-M-TBP | 2MM-HSD-SXX-VS-00-H-TBP | | | | |

AMPMODU 2 MM INTERCONNECTION SYSTEM

SHROUDED HEADERS - WITH DETENT LATCHES

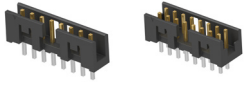
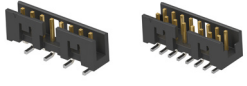
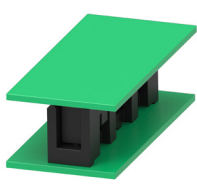
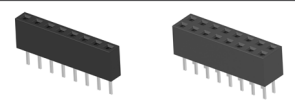
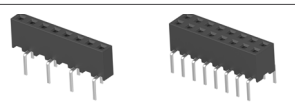
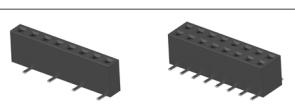
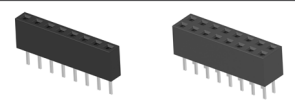
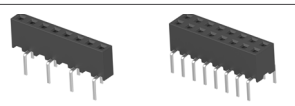
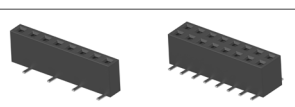
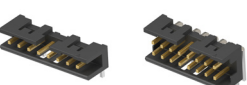
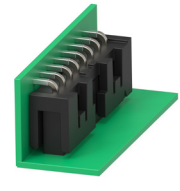
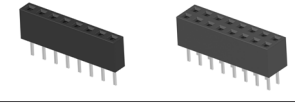
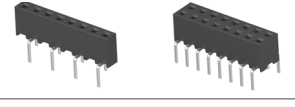
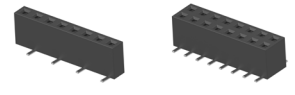
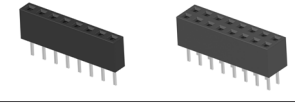
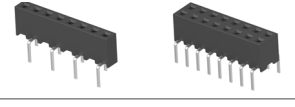
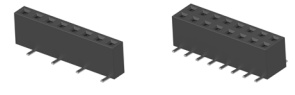
DOUBLE ROW

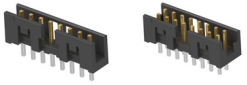
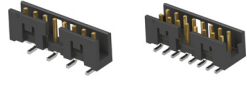
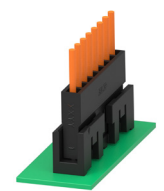
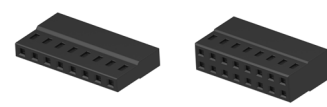
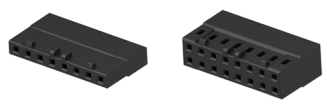
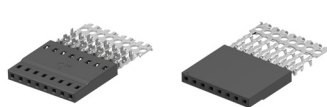
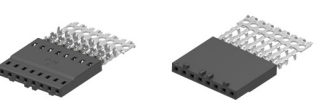
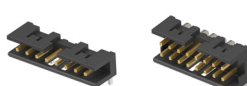
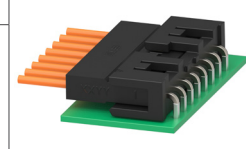
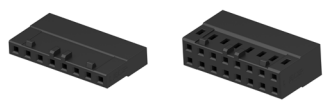
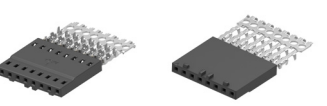
| Product Type | Drawing Number | Solder Lead Length | Base Number / Smart Part Number | | | | Packaging | Available Positions |
|--|----------------|--------------------|---------------------------------|-------------------------|-------------------------|-------------------------|--------------|---------------------|
| | | | Tin | 4μ" [0.1μm] Gold | 15μ" [0.38μm] Gold | 30μ" [0.76μm] Gold | | |
|  Vertical Through Hole | 2823335 | 0.087" [2.2mm] | 2823335 | 2823338 | 2823341 | 2823344 | Tube w/o cap | 4-32, 40, 44, 50 |
| | | | 2MM-HSD-DXX-VT-01-T-TB | 2MM-HSD-DXX-VT-01-F-TB | 2MM-HSD-DXX-VT-01-M-TB | 2MM-HSD-DXX-VT-01-H-TB | | |
| | | | 2823875 | 2823876 | 2823877 | 2823878 | Tube w/ cap | 6-32, 40, 44, 50 |
| | | | 2MM-HSD-DXX-VT-01-T-TBP | 2MM-HSD-DXX-VT-01-F-TBP | 2MM-HSD-DXX-VT-01-M-TBP | 2MM-HSD-DXX-VT-01-H-TBP | | |
| | | | 2823505 | 2823506 | 2823507 | 2823508 | T&R w/ cap | 4-32, 40, 44, 50 |
| | | | 2MM-HSD-DXX-VT-01-T-TRP | 2MM-HSD-DXX-VT-01-F-TRP | 2MM-HSD-DXX-VT-01-M-TRP | 2MM-HSD-DXX-VT-01-H-TRP | | |
| | | 0.110" [2.8mm] | 2823336 | 2823339 | 2823342 | 2823345 | Tube w/o cap | 4-32, 40, 44, 50 |
| | | | 2MM-HSD-DXX-VT-02-T-TB | 2MM-HSD-DXX-VT-02-F-TB | 2MM-HSD-DXX-VT-02-M-TB | 2MM-HSD-DXX-VT-02-H-TB | | |
| | | | 2823883 | 2823884 | 2823885 | 2823886 | Tube w/ cap | 6-32, 40, 44, 50 |
| | | | 2MM-HSD-DXX-VT-02-T-TBP | 2MM-HSD-DXX-VT-02-F-TBP | 2MM-HSD-DXX-VT-02-M-TBP | 2MM-HSD-DXX-VT-02-H-TBP | | |
| | | | 2823509 | 2823510 | 2823511 | 2823512 | T&R w/ cap | 4-32, 40, 44, 50 |
| | | | 2MM-HSD-DXX-VT-02-T-TRP | 2MM-HSD-DXX-VT-02-F-TRP | 2MM-HSD-DXX-VT-02-M-TRP | 2MM-HSD-DXX-VT-02-H-TRP | | |
|  Horizontal Through Hole | 2823351 | 0.087" [2.2mm] | 2823352 | 2823355 | 2823358 | 2823361 | Tube w/o cap | 4-32, 40, 44, 50 |
| | | | 2MM-HSD-DXX-HT-01-T-TB | 2MM-HSD-DXX-HT-01-F-TB | 2MM-HSD-DXX-HT-01-M-TB | 2MM-HSD-DXX-HT-01-H-TB | | |
| | | | 2823899 | 2823900 | 2823901 | 2823902 | Tube w/ cap | 6-32, 40, 44, 50 |
| | | | 2MM-HSD-DXX-HT-01-T-TBP | 2MM-HSD-DXX-HT-01-F-TBP | 2MM-HSD-DXX-HT-01-M-TBP | 2MM-HSD-DXX-HT-01-H-TBP | | |
| | | | 2823521 | 2823522 | 2823523 | 2823524 | T&R w/ cap | 6-32, 40, 44, 50 |
| | | | 2MM-HSD-DXX-HT-01-T-TRP | 2MM-HSD-DXX-HT-01-F-TRP | 2MM-HSD-DXX-HT-01-M-TRP | 2MM-HSD-DXX-HT-01-H-TRP | | |
| | | 0.110" [2.8mm] | 2823351 | 2823354 | 2823357 | 2823360 | Tube w/o cap | 4-32, 40, 44, 50 |
| | | | 2MM-HSD-DXX-HT-02-T-TB | 2MM-HSD-DXX-HT-02-F-TB | 2MM-HSD-DXX-HT-02-M-TB | 2MM-HSD-DXX-HT-02-H-TB | | |
| | | | 2823891 | 2823892 | 2823893 | 2823894 | Tube w/ cap | 6-32, 40, 44, 50 |
| | | | 2MM-HSD-DXX-HT-02-T-TBP | 2MM-HSD-DXX-HT-02-F-TBP | 2MM-HSD-DXX-HT-02-M-TBP | 2MM-HSD-DXX-HT-02-H-TBP | | |
| | | | 2823525 | 2823526 | 2823527 | 2823528 | T&R w/ cap | 6-32, 40, 44, 50 |
| | | | 2MM-HSD-DXX-HT-02-T-TRP | 2MM-HSD-DXX-HT-02-F-TRP | 2MM-HSD-DXX-HT-02-M-TRP | 2MM-HSD-DXX-HT-02-H-TRP | | |
|  Vertical Surface Mount | 2823367 | - | 2823367 | 2823368 | 2823369 | 2823370 | T&R w/ cap | 4-32, 40, 44, 50 |
| | | | 2MM-HSD-DXX-VS-00-T-TBP | 2MM-HSD-DXX-VS-00-F-TBP | 2MM-HSD-DXX-VS-00-M-TBP | 2MM-HSD-DXX-VS-00-H-TBP | | |
| | | | 2823907 | 2823908 | 2823909 | 2823910 | Tube w/ cap | 6-32, 40, 44, 50 |
| | | | 2MM-HSD-DXX-VS-00-T-TBP | 2MM-HSD-DXX-VS-00-F-TBP | 2MM-HSD-DXX-VS-00-M-TBP | 2MM-HSD-DXX-VS-00-H-TBP | | |

AMPMODU 2 MM INTERCONNECTION SYSTEM

SHROUDED HEADERS - WITH DETENT LATCHES

MATEABLE PARTS

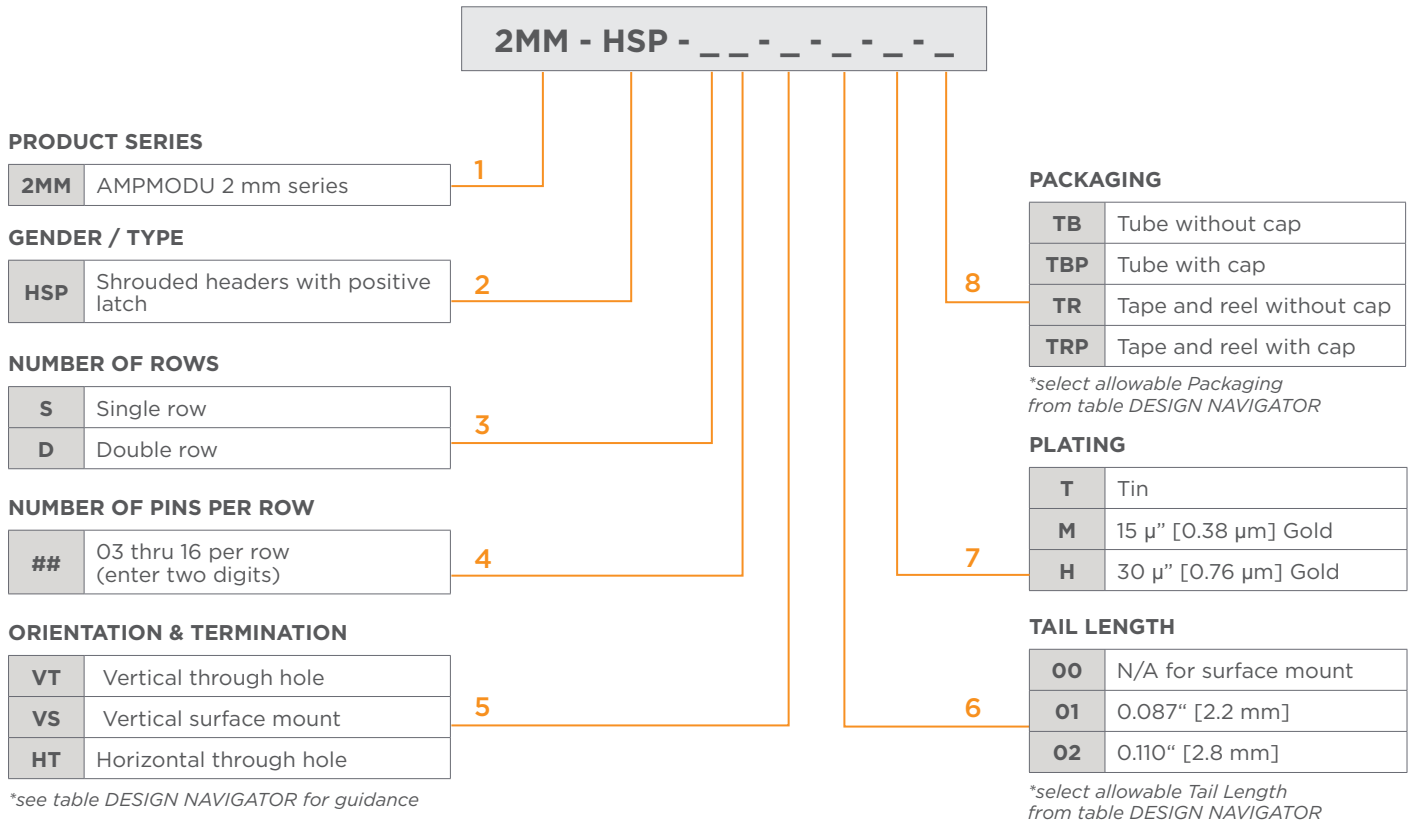
| Shrouded Headers w/ Detent Latches | B-t-B Orientation | Mateable Receptacles | |
|---|---|---|---|
| Vertical Orientation 2MM - HSD - __ - VT  2MM - HSD - __ - VS  | Parallel  | Vertical Board Receptacles 2MM - R - __ - VT  2MM - R - __ - VTR  2MM - R - __ - VS  | Page 15-16    |
| Horizontal Orientation 2MM - HSD - __ - HT  | Perpendicular  | Vertical Board Receptacles 2MM - R - __ - VT  2MM - R - __ - VTR  2MM - R - __ - VS  | Page 15-16    |

| Shrouded Headers w/ Detent Latches | W-t-B Orientation | Mateable Receptacles | | | |
|---|---|---|--|---|-------------------|
| Vertical Orientation 2MM - HSD - __ - VT  2MM - HSD - __ - VS  |  | Crimp Receptacles 2MM - RC - __  Standard (No Latches) 2MM - RCD - __  W/ Detent Latches | Page 17-19 | IDC Receptacles <i>Single row Only</i> 2MM - RD - __  Standard (No Latches) 2MM - RDD - __  W/ Detent Latches | Page 20-22 |
| Horizontal Orientation 2MM - HSD - __ - HT  |  |  W/ Detent Latches |  W/ Detent Latches | | |

AMPMODU 2 MM INTERCONNECTION SYSTEM

SHROUDED HEADERS - WITH POSITIVE LATCH

SMART PART NUMBER DEFINITION



SMART PN EXAMPLES

- AMPMODU 2 mm, shrouded header with positive latch, double row, 16 positions (2 x 8), vertical through hole, 2.2 mm tail length, 30μ" [0.76μm] gold, tube without cap: 2MM-HSP-D08-VT-01-H-TB


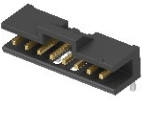

DESIGN NAVIGATOR

| | Orientation & Termination | Tail Length | | Packaging |
|----|---------------------------|-------------|-----------------|-----------|
| VT | | 01 | 0.087" [2.2 mm] | TB |
| | | | | TBP |
| | | 02 | 0.110" [2.8 mm] | TRP |
| | | | | TB |
| VS | | 00 | - | TBP |
| | | | | TRP |
| | | 01 | 0.087" [2.2 mm] | TB |
| | | | | TR |
| 02 | 0.110" [2.8 mm] | TB | | |
| | | TR | | |

AMPMODU 2 MM INTERCONNECTION SYSTEM

SHROUDED HEADERS - WITH POSITIVE LATCH

SINGLE ROW

| Product Type | Drawing Number | Solder Lead Length | Base Number / Smart Part Number | | | | Packaging | Available Positions |
|--|----------------|--------------------|---------------------------------|------------------------------|--------------------------------|--------------------------------|--------------|---------------------|
| | | | Tin | 4 μ " [0.1 μ m] Gold | 15 μ " [0.38 μ m] Gold | 30 μ " [0.76 μ m] Gold | | |
|  Vertical Through Hole | 2823174 | 0.087" [2.2mm] | 2823174 | Up On Request | 2823179 | 2823183 | Tube w/o cap | 3-16 |
| | | | 2MM-HSP-SXX-VT-01-T-TB | - | 2MM-HSP-SXX-VT-01-M-TB | 2MM-HSP-SXX-VT-01-H-TB | | |
| | | | 2823911 | Up On Request | 2823912 | 2823913 | Tube w/ cap | 3-16 |
| | | | 2MM-HSP-SXX-VT-01-T-TBP | - | 2MM-HSP-SXX-VT-01-M-TBP | 2MM-HSP-SXX-VT-01-H-TBP | | |
| | | | 2823529 | Up On Request | 2823530 | 2823531 | T&R w/ cap | 3-16 |
| | | | 2MM-HSP-SXX-VT-01-T-TRP | - | 2MM-HSP-SXX-VT-01-M-TRP | 2MM-HSP-SXX-VT-01-H-TRP | | |
| | | 0.110" [2.8mm] | 2823400 | Up On Request | 2823401 | 2823402 | Tube w/o cap | 3-16 |
| | | | 2MM-HSP-SXX-VT-02-T-TB | - | 2MM-HSP-SXX-VT-02-M-TB | 2MM-HSP-SXX-VT-02-H-TB | | |
| | | | 2823917 | Up On Request | 2823918 | 2823919 | Tube w/ cap | 3-16 |
| | | | 2MM-HSP-SXX-VT-02-T-TBP | - | 2MM-HSP-SXX-VT-02-M-TBP | 2MM-HSP-SXX-VT-02-H-TBP | | |
| | | | 2823532 | Up On Request | 2823533 | 2823534 | T&R w/ cap | 3-16 |
| | | | 2MM-HSP-SXX-VT-02-T-TRP | - | 2MM-HSP-SXX-VT-02-M-TRP | 2MM-HSP-SXX-VT-02-H-TRP | | |
|  Horizontal Through Hole | 2823187 | 0.087" [2.2mm] | 2823187 | Up On Request | 2823191 | 2823194 | Tube w/o cap | 3-16 |
| | | | 2MM-HSP-SXX-HT-01-T-TB | - | 2MM-HSP-SXX-HT-01-M-TB | 2MM-HSP-SXX-HT-01-H-TB | | |
| | | | 2823541 | Up On Request | 2823542 | 2823543 | T&R w/o cap | 3-16 |
| | | | 2MM-HSP-SXX-HT-01-T-TR | - | 2MM-HSP-SXX-HT-01-M-TR | 2MM-HSP-SXX-HT-01-H-TR | | |
| | | 0.110" [2.8mm] | 2823403 | Up On Request | 2823404 | 2823405 | Tube w/o cap | 3-16 |
| | | | 2MM-HSP-SXX-HT-02-T-TB | - | 2MM-HSP-SXX-HT-02-M-TB | 2MM-HSP-SXX-HT-02-H-TB | | |
| | | | 2823544 | Up On Request | 2823545 | 2823546 | T&R w/o cap | 3-16 |
| | | | 2MM-HSP-SXX-HT-02-T-TR | - | 2MM-HSP-SXX-HT-02-M-TR | 2MM-HSP-SXX-HT-02-H-TR | | |
|  Vertical Surface Mount | 2823199 | - | 2823199 | Up On Request | 2823203 | 2823207 | T&R w/ cap | 3-16 |
| | | | 2MM-HSP-SXX-VS-00-T-TRP | - | 2MM-HSP-SXX-VS-00-M-TRP | 2MM-HSP-SXX-VS-00-H-TRP | | |
| | | | 2823929 | Up On Request | 2823930 | 2823931 | Tube w/ cap | 3-16 |
| | | | 2MM-HSP-SXX-VS-00-T-TBP | - | 2MM-HSP-SXX-VS-00-M-TBP | 2MM-HSP-SXX-VS-00-H-TBP | | |

AMPMODU 2 MM INTERCONNECTION SYSTEM

SHROUDED HEADERS - WITH POSITIVE LATCH

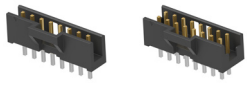

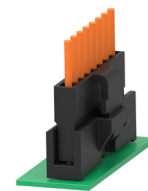
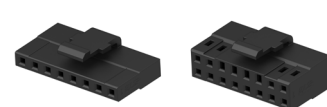
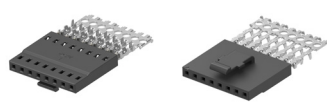

DOUBLE ROW

| Product Type | Drawing Number | Solder Lead Length | Base Number / Smart Part Number | | | | Packaging | Available Positions |
|---|----------------|--------------------|---------------------------------|------------------|-------------------------|-------------------------|--------------|---------------------|
| | | | Tin | 4μ" [0.1μm] Gold | 15μ" [0.38μm] Gold | 30μ" [0.76μm] Gold | | |
| Vertical Through Hole  | 2823211 | 0.087" [2.2mm] | 2823211 | Up On Request | 2823214 | 2823219 | Tube w/o cap | 6-32 |
| | | | 2MM-HSP-DXX-VT-01-T-TB | - | 2MM-HSP-DXX-VT-01-M-TB | 2MM-HSP-DXX-VT-01-H-TB | | |
| | | | 2823932 | Up On Request | 2823933 | 2823934 | Tube w/ cap | |
| | | | 2MM-HSP-DXX-VT-01-T-TBP | - | 2MM-HSP-DXX-VT-01-M-TBP | 2MM-HSP-DXX-VT-01-H-TBP | | |
| | | | 2823535 | Up On Request | 2823536 | 2823537 | T&R w/ cap | |
| | | | 2MM-HSP-DXX-VT-01-T-TRP | - | 2MM-HSP-DXX-VT-01-M-TRP | 2MM-HSP-DXX-VT-01-H-TRP | | |
| | | 0.110" [2.8mm] | 2823406 | Up On Request | 2823407 | 2823408 | Tube w/o cap | 6-32 |
| | | | 2MM-HSP-DXX-VT-02-T-TB | - | 2MM-HSP-DXX-VT-02-M-TB | 2MM-HSP-DXX-VT-02-H-TB | | |
| | | | 2823938 | Up On Request | 2823939 | 2823940 | Tube w/ cap | |
| | | | 2MM-HSP-DXX-VT-02-T-TBP | - | 2MM-HSP-DXX-VT-02-M-TBP | 2MM-HSP-DXX-VT-02-H-TBP | | |
| | | | 2823538 | Up On Request | 2823539 | 2823540 | T&R w/ cap | |
| | | | 2MM-HSP-DXX-VT-02-T-TRP | - | 2MM-HSP-DXX-VT-02-M-TRP | 2MM-HSP-DXX-VT-02-H-TRP | | |
| Horizontal Through Hole  | 2823224 | 0.087" [2.2mm] | 2823224 | Up On Request | 2823228 | 2823232 | Tube w/o cap | 6-32 |
| | | | 2MM-HSP-DXX-HT-01-T-TB | - | 2MM-HSP-DXX-HT-01-M-TB | 2MM-HSP-DXX-HT-01-H-TB | | |
| | | | 2823547 | Up On Request | 2823548 | 2823549 | T&R w/o cap | |
| | | | 2MM-HSP-DXX-HT-01-T-TR | - | 2MM-HSP-DXX-HT-01-M-TR | 2MM-HSP-DXX-HT-01-H-TR | | |
| | | 0.110" [2.8mm] | 2823409 | Up On Request | 2823410 | 2823411 | Tube w/o cap | |
| | | | 2MM-HSP-DXX-HT-02-T-TB | - | 2MM-HSP-DXX-HT-02-M-TB | 2MM-HSP-DXX-HT-02-H-TB | | |
| | | | 2823550 | Up On Request | 2823551 | 2823552 | T&R w/o cap | |
| | | | 2MM-HSP-DXX-HT-02-T-TR | - | 2MM-HSP-DXX-HT-02-M-TR | 2MM-HSP-DXX-HT-02-H-TR | | |
| Vertical Surface Mount  | 2823235 | - | 2823235 | Up On Request | 2823240 | 2823244 | T&R w/ cap | 6-32 |
| | | | 2MM-HSP-DXX-VS-00-T-TRP | - | 2MM-HSP-DXX-VS-00-M-TRP | 2MM-HSP-DXX-VS-00-H-TRP | | |
| | | | 2823950 | Up On Request | 2823951 | 2823952 | Tube w/ cap | |
| | | | 2MM-HSP-DXX-VS-00-T-TBP | - | 2MM-HSP-DXX-VS-00-M-TBP | 2MM-HSP-DXX-VS-00-H-TBP | | |

AMPMODU 2 MM INTERCONNECTION SYSTEM

SHROUDED HEADERS - WITH POSITIVE LATCH

MATEABLE PARTS

| Shrouded Headers w/ Positive Latch | W-t-B Orientation | Mateable Receptacles | | | |
|---|---|---|------------|--|------------|
| | | Crimp Receptacles | Page 17-19 | IDC Receptacles <i>Single row Only</i> | Page 20-22 |
| Vertical Orientation 2MM - HSP - __ - VT  2MM - HSP - __ - VS  |  | 2MM - RCP - __  W/ Positive Latch | | 2MM - RDP - __  W/ Positive Latch | |
| Horizontal Orientation 2MM - HSP - __ - HT  | |  | | | |

AMPMODU 2 MM INTERCONNECTION SYSTEM

BOARD RECEPTACLES

SMART PART NUMBER DEFINITION

2MM - R - _ - _ - _ - _ - _ - _ -

PRODUCT SERIES

| | | |
|------------|---------------------|---|
| 2MM | AMPMODU 2 mm series | 1 |
|------------|---------------------|---|

GENDER / TYPE

| | | |
|----------|------------|---|
| R | Receptacle | 2 |
|----------|------------|---|

NUMBER OF ROWS

| | | |
|----------|------------|---|
| S | Single row | 3 |
| D | Double row | |

NUMBER OF POSITIONS PER ROW

| | | |
|-----------|--|---|
| ## | 02 thru 25 per row (enter two digits) | 4 |
|-----------|--|---|

ORIENTATION & TERMINATION

| | | |
|------------|---------------------------------|---|
| VT | Vertical through hole | 5 |
| VTR | Vertical through hole outrigger | |
| VS | Vertical surface mount | |
| HT | Horizontal through hole | |
| HS | Horizontal surface mount | |

*see table DESIGN NAVIGATOR for guidance

SMART PN EXAMPLES

- AMPMODU 2 mm, board receptacle, double row, 8 positions (2 x 4), horizontal SMT, tail length: N/A, gold flash, T&R without cap: **2MM-R-D04-HS-00-F-TR**

DESIGN NAVIGATOR

| | Orientation & Termination | Tail Length | | Packaging |
|-----|---------------------------|-------------|-----------------|-----------|
| | | | | |
| VT | | 01 | 0.079" [2.0 mm] | TRP |
| | | 02 | 0.106" [2.7 mm] | TBP |
| | | | | TRP |
| VTR | | 01 | 0.091" [2.3 mm] | TRP |
| | | 02 | 0.110" [2.8 mm] | TBP |
| | | | | TRP |
| VS | | 00 | - | TRP |
| | | 00 | - | TBP |
| | | | | TRP |
| HT | | 01 | 0.083" [2.1 mm] | TR |
| | | 02 | 0.110" [2.8 mm] | TB |
| | | | | TR |
| HS | | 03 | 0.134" [3.4 mm] | TB |
| | | 00 | - | TB |
| | | | | TR |

PACKAGING

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

*select allowable Packaging from table DESIGN NAVIGATOR

PLATING

| | |
|----------|--------------------------------|
| T | Tin |
| F | 4μ" [0.1 μm] Gold (Gold flash) |
| M | 15μ" [0.38 μm] Gold |
| H | 30μ" [0.76 μm] Gold |

TAIL LENGTH

| | |
|-----------|-------------------------------|
| 00 | N/A for surface mount |
| 01 | 0.079 - 0.091" [2.0 - 2.3 mm] |
| 02 | 0.106 - 0.110" [2.7 - 2.8 mm] |
| 03 | 0.126 - 0.134" [3.2 - 3.4 mm] |

*select allowable Tail Length from table DESIGN NAVIGATOR



AMPMODU 2 MM INTERCONNECTION SYSTEM

BOARD RECEPTACLES

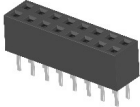
SINGLE ROW

| Product Type | Drawing Number | Solder Lead Length | Base Number / Smart Part Number | | | | Packaging | Available Positions | | |
|---|------------------------|--|---------------------------------|------------------------|------------------------|------------------------|------------------------|-----------------------|------------------------|------------|
| | | | Tin | 4μ" [0.1μm] Gold | 15μ" [0.38μm] Gold | 30μ" [0.76μm] Gold | | | | |
| Vertical Through Hole  | 2307764 | 0.079" [2.0mm] | 2307764 | 2307767 | 2307770 | 2307773 | T&R w/ cap | 2-25 | | |
| | | | 2MM-R-SXX-VT-01-T-TRP | 2MM-R-SXX-VT-01-F-TRP | 2MM-R-SXX-VT-01-M-TRP | 2MM-R-SXX-VT-01-H-TRP | | | | |
| | | | 2314867 | 2314868 | 2314869 | 2314870 | | | Tube w/ cap | |
| | | | 2MM-R-SXX-VT-01-T-TBP | 2MM-R-SXX-VT-01-F-TBP | 2MM-R-SXX-VT-01-M-TBP | 2MM-R-SXX-VT-01-H-TBP | | | | |
| | | | 2307765 | 2307768 | 2307771 | 2307774 | T&R w/ cap | | | |
| | | | 2MM-R-SXX-VT-02-T-TRP | 2MM-R-SXX-VT-02-F-TRP | 2MM-R-SXX-VT-02-M-TRP | 2MM-R-SXX-VT-02-H-TRP | | | | |
| | | 2314879 | 2314880 | 2314881 | 2314882 | Tube w/ cap | | | | |
| | | 2MM-R-SXX-VT-02-T-TBP | 2MM-R-SXX-VT-02-F-TBP | 2MM-R-SXX-VT-02-M-TBP | 2MM-R-SXX-VT-02-H-TBP | | | | | |
| | | 2314875 | 2314876 | 2314877 | 2314878 | | Tube w/o cap | | | |
| | | 2MM-R-SXX-VT-02-T-TB | 2MM-R-SXX-VT-03-F-TB | 2MM-R-SXX-VT-02-M-TB | 2MM-R-SXX-VT-02-H-TB | | | | | |
| | | 2307766 | 2307769 | 2307772 | 2307775 | Tube w/o cap | | | | |
| | | 2MM-R-SXX-VT-03-T-TB | 2MM-R-SXX-VT-03-F-TB | 2MM-R-SXX-VT-03-M-TB | 2MM-R-SXX-VT-03-H-TB | | | | | |
| | | Vertical Through Hole Outrigger  | 2307832 | 0.091" [2.3mm] | 2307832 | | 2307835 | | 2307838 | 2307841 |
| | | | | | 2MM-R-SXX-VTR-01-T-TRP | 2MM-R-SXX-VTR-01-F-TRP | 2MM-R-SXX-VTR-01-M-TRP | | 2MM-R-SXX-VTR-01-H-TRP | |
| 2314899 | 2314900 | | | | 2314901 | 2314902 | Tube w/ cap | | | |
| 2MM-R-SXX-VTR-01-T-TBP | 2MM-R-SXX-VTR-01-F-TBP | | | | 2MM-R-SXX-VTR-01-M-TBP | 2MM-R-SXX-VTR-01-H-TBP | | | | |
| 2307833 | 2307836 | | | | 2307839 | 2307842 | | T&R w/ cap | | |
| 2MM-R-SXX-VTR-02-T-TRP | 2MM-R-SXX-VTR-02-F-TRP | | | | 2MM-R-SXX-VTR-02-M-TRP | 2MM-R-SXX-VTR-02-H-TRP | | | | |
| 2314911 | 2314912 | | | 2338990 | 2314914 | Tube w/ cap | | | | |
| 2MM-R-SXX-VTR-02-T-TBP | 2MM-R-SXX-VTR-02-F-TBP | | | 2MM-R-SXX-VTR-02-M-TBP | 2MM-R-SXX-VTR-02-H-TBP | | | | | |
| 2314907 | 2314908 | | | 2314909 | 2314910 | | Tube w/o cap | | | |
| 2MM-R-SXX-VTR-02-T-TB | 2MM-R-SXX-VTR-02-F-TB | | | 2MM-R-SXX-VTR-02-M-TB | 2MM-R-SXX-VTR-02-H-TB | | | | | |
| 2307834 | 2307837 | | | 2307840 | 2307843 | Tube w/o cap | | | | |
| 2MM-R-SXX-VTR-03-T-TB | 2MM-R-SXX-VTR-03-F-TB | | | 2MM-R-SXX-VTR-03-M-TB | 2MM-R-SXX-VTR-03-H-TB | | | | | |
| Vertical Surface Mount  | 2307812 | | | - | 2307812 | | 2307813 | 2307814 | 2307815 | T&R w/ cap |
| | | | | | 2MM-R-SXX-VS-00-T-TRP | 2MM-R-SXX-VS-00-F-TRP | 2MM-R-SXX-VS-00-M-TRP | 2MM-R-SXX-VS-00-H-TRP | | |
| | | 2314847 | 2314848 | | 2314849 | 2314850 | Tube w/ cap | | | |
| | | 2MM-R-SXX-VS-00-T-TBP | 2MM-R-SXX-VS-00-F-TBP | | 2MM-R-SXX-VS-00-M-TBP | 2MM-R-SXX-VS-00-H-TBP | | | | |

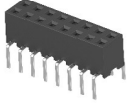
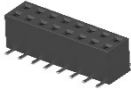
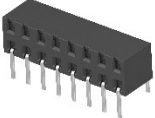
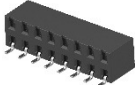
AMPMODU 2 MM INTERCONNECTION SYSTEM

| Product Type | Drawing Number | Solder Lead Length | Base Number / Smart Part Number | | | | Packaging | Available Positions | | | |
|---|----------------------|--|---------------------------------|----------------------|----------------------|----------------------|----------------------|---------------------|----------------------|------------|------|
| | | | Tin | 4μ" [0.1μm] Gold | 15μ" [0.38μm] Gold | 30μ" [0.76μm] Gold | | | | | |
| Horizontal Through Hole  | 2307700 | 0.083" [2.1mm] | 2307700 | 2307703 | 2307706 | 2307709 | T&R w/o cap | 2-25 | | | |
| | | | 2MM-R-SXX-HT-01-T-TR | 2MM-R-SXX-HT-01-F-TR | 2MM-R-SXX-HT-01-M-TR | 2MM-R-SXX-HT-01-H-TR | | | | | |
| | | | 2314927 | 2314928 | 2314929 | 2314930 | Tube w/ cap | | | | |
| | | 2MM-R-SXX-HT-01-T-TB | 2MM-R-SXX-HT-01-F-TB | 2MM-R-SXX-HT-01-M-TB | 2MM-R-SXX-HT-01-H-TB | | | | | | |
| | | 0.110" [2.8mm] | 2314935 | 2314936 | 2314937 | 2314938 | T&R w/o cap | | | | |
| | | | 2MM-R-SXX-HT-02-T-TR | 2MM-R-SXX-HT-02-F-TR | 2MM-R-SXX-HT-02-M-TR | 2MM-R-SXX-HT-02-H-TR | Tube w/ cap | | | | |
| | | | 2307701 | 2307704 | 2307707 | 2307710 | | | | | |
| | | 0.134" [3.4mm] | 2MM-R-SXX-HT-02-T-TB | 2MM-R-SXX-HT-02-F-TB | 2MM-R-SXX-HT-02-M-TB | 2MM-R-SXX-HT-02-H-TB | Tube w/ cap | | | | |
| | | | 2307702 | 2307705 | 2307708 | 2307711 | | | | | |
| | | | 2MM-R-SXX-HT-03-T-TB | 2MM-R-SXX-HT-03-F-TB | 2MM-R-SXX-HT-03-M-TB | 2MM-R-SXX-HT-03-H-TB | | | | | |
| | | Horizontal Surface Mount  | 2307724 | - | 2307724 | 2307725 | 2307726 | | 2307727 | T&R w/ cap | 2-25 |
| | | | | | 2MM-R-SXX-HS-00-T-TR | 2MM-R-SXX-HS-00-F-TR | 2MM-R-SXX-HS-00-M-TR | | 2MM-R-SXX-HS-00-H-TR | | |
| 2314943 | 2314944 | | | | 2314945 | 2314946 | Tube w/ cap | | | | |
| 2MM-R-SXX-HS-00-T-TB | 2MM-R-SXX-HS-00-F-TB | | | | 2MM-R-SXX-HS-00-M-TB | 2MM-R-SXX-HS-00-H-TB | | | | | |

DOUBLE ROW

| Product Type | Drawing Number | Solder Lead Length | Base Number / Smart Part Number | | | | Packaging | Available Positions |
|---|----------------|-----------------------|---------------------------------|-----------------------|-----------------------|-----------------------|--------------|---------------------|
| | | | Tin | 4μ" [0.1μm] Gold | 15μ" [0.38μm] Gold | 30μ" [0.76μm] Gold | | |
| Vertical Through Hole  | 2307776 | 0.079" [2.0mm] | 2307776 | 2307779 | 2307782 | 2307785 | T&R w/ cap | 4-50 |
| | | | 2MM-R-DXX-VT-01-T-TRP | 2MM-R-DXX-VT-01-F-TRP | 2MM-R-DXX-VT-01-M-TRP | 2MM-R-DXX-VT-01-H-TRP | | |
| | | | 2314811 | 2314812 | 2314813 | 2314814 | Tube w/ cap | |
| | | 2MM-R-DXX-VT-01-T-TBP | 2MM-R-DXX-VT-01-F-TBP | 2MM-R-DXX-VT-01-M-TBP | 2MM-R-DXX-VT-01-H-TBP | | | |
| | | 0.106" [2.7mm] | 2307777 | 2307780 | 2307783 | 2307786 | T&R w/ cap | |
| | | | 2MM-R-DXX-VT-02-T-TRP | 2MM-R-DXX-VT-02-F-TRP | 2MM-R-DXX-VT-02-M-TRP | 2MM-R-DXX-VT-02-H-TRP | Tube w/ cap | |
| | | | 2314823 | 2314824 | 2314825 | 2314826 | | |
| | | 0.126" [3.2mm] | 2MM-R-DXX-VT-02-T-TBP | 2MM-R-DXX-VT-02-F-TBP | 2MM-R-DXX-VT-02-M-TBP | 2MM-R-DXX-VT-02-H-TBP | Tube w/ cap | |
| | | | 2314819 | 2314820 | 2314821 | 2314822 | | |
| | | | 2MM-R-DXX-VT-02-T-TB | 2MM-R-DXX-VT-02-F-TB | 2MM-R-DXX-VT-02-M-TB | 2MM-R-DXX-VT-02-H-TB | Tube w/o cap | |
| | | 2307778 | 2307781 | 2307784 | 2307787 | | | |
| | | 2MM-R-DXX-VT-03-T-TB | 2MM-R-DXX-VT-03-F-TB | 2MM-R-DXX-VT-03-M-TB | 2MM-R-DXX-VT-03-H-TB | Tube w/o cap | | |

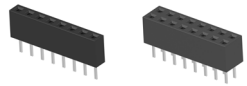
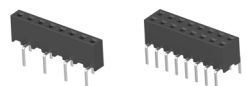
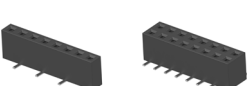
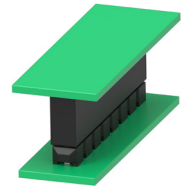
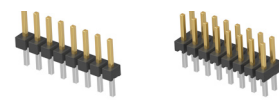

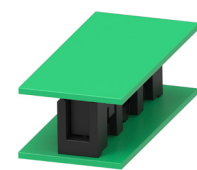
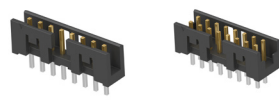

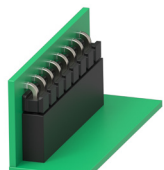

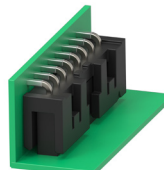

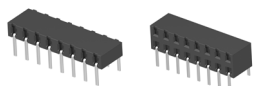

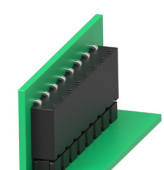
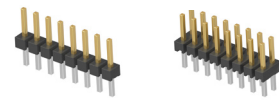

AMPMODU 2 MM INTERCONNECTION SYSTEM

| Product Type | Drawing Number | Solder Lead Length | Base Number / Smart Part Number | | | | Packaging | Available Positions |
|---|-----------------------|--|---------------------------------|------------------------|------------------------|------------------------|--------------|---------------------|
| | | | Tin | 4μ" [0.1μm] Gold | 15μ" [0.38μm] Gold | 30μ" [0.76μm] Gold | | |
| Vertical Through Hole Outrigger  | 2307820 | 0.091" [2.3mm] | 2307820 | 2307823 | 2307826 | 2307829 | T&R w/ cap | 4-50 |
| | | | 2MM-R-DXX-VTR-01-T-TRP | 2MM-R-DXX-VTR-01-F-TRP | 2MM-R-DXX-VTR-01-M-TRP | 2MM-R-DXX-VTR-01-H-TRP | Tube w/ cap | |
| | | | 2314851 | 2314852 | 2314853 | 2314143 | | |
| | | | 2MM-R-DXX-VTR-01-T-TBP | 2MM-R-DXX-VTR-01-F-TBP | 2MM-R-DXX-VTR-01-M-TBP | 2MM-R-DXX-VTR-01-H-TBP | | |
| | | 0.110" [2.8mm] | 2307821 | 2307824 | 2307827 | 2307830 | T&R w/ cap | |
| | | | 2MM-R-DXX-VTR-02-T-TRP | 2MM-R-DXX-VTR-02-F-TRP | 2MM-R-DXX-VTR-02-M-TRP | 2MM-R-DXX-VTR-02-H-TRP | Tube w/ cap | |
| | | | 2314863 | 2314864 | 2314865 | 2314866 | | |
| | | | 2MM-R-DXX-VTR-02-T-TBP | 2MM-R-DXX-VTR-02-F-TBP | 2MM-R-DXX-VTR-02-M-TBP | 2MM-R-DXX-VTR-02-H-TBP | | |
| | | | 2314859 | 2314860 | 2314861 | 2314862 | Tube w/o cap | |
| | | | 2MM-R-DXX-VTR-02-T-TB | 2MM-R-DXX-VTR-02-F-TB | 2MM-R-DXX-VTR-02-M-TB | 2MM-R-DXX-VTR-02-H-TB | | |
| | | 0.134" [3.4mm] | 2307822 | 2307825 | 2307828 | 2307831 | Tube w/o cap | |
| | | | 2MM-R-DXX-VTR-03-T-TB | 2MM-R-DXX-VTR-03-F-TB | 2MM-R-DXX-VTR-03-M-TB | 2MM-R-DXX-VTR-03-H-TB | | |
| | | Vertical Surface Mount  | 2307816 | - | 2307816 | 2307817 | 2307818 | |
| 2MM-R-DXX-VS-00-T-TRP | 2MM-R-DXX-VS-00-F-TRP | | | | 2MM-R-DXX-VS-00-M-TRP | 2MM-R-DXX-VS-00-H-TRP | | |
| 2314843 | 2314844 | | | | 2314845 | 2314846 | Tube w/ cap | |
| 2MM-R-DXX-VS-00-T-TBP | 2MM-R-DXX-VS-00-F-TBP | | | | 2MM-R-DXX-VS-00-M-TBP | 2MM-R-DXX-VS-00-H-TBP | | |
| Horizontal Through Hole  | 2307712 | 0.083" [2.1mm] | 2307712 | 2307715 | 2307718 | 2307721 | T&R w/o cap | 4-50 |
| | | | 2MM-R-DXX-HT-01-T-TR | 2MM-R-DXX-HT-01-F-TR | 2MM-R-DXX-HT-01-M-TR | 2MM-R-DXX-HT-01-H-TR | Tube w/o cap | |
| | | | 2314915 | 2314916 | 2314917 | 2314918 | | |
| | | | 2MM-R-DXX-HT-01-T-TB | 2MM-R-DXX-HT-01-F-TB | 2MM-R-DXX-HT-01-M-TB | 2MM-R-DXX-HT-01-H-TB | | |
| | | 0.110" [2.8mm] | 2314923 | 2314924 | 2314925 | 2314926 | T&R w/o cap | |
| | | | 2MM-R-DXX-HT-02-T-TR | 2MM-R-DXX-HT-02-F-TR | 2MM-R-DXX-HT-02-M-TR | 2MM-R-DXX-HT-02-H-TR | Tube w/o cap | |
| | | | 2307713 | 2307716 | 2307719 | 2307722 | | |
| | | 0.134" [3.4mm] | 2MM-R-DXX-HT-02-T-TB | 2MM-R-DXX-HT-02-F-TB | 2MM-R-DXX-HT-02-M-TB | 2MM-R-DXX-HT-02-H-TB | | |
| | | | 2307714 | 2307717 | 2307720 | 2307723 | Tube w/o cap | |
| | | | 2MM-R-DXX-HT-03-T-TB | 2MM-R-DXX-HT-03-F-TB | 2MM-R-DXX-HT-03-M-TB | 2MM-R-DXX-HT-03-H-TB | | |
| Horizontal Surface Mount  | 2307728 | - | 2307728 | 2307729 | 2307730 | 2307731 | T&R w/o cap | 4-50 |
| | | | 2MM-R-DXX-HS-00-T-TR | 2MM-R-DXX-HS-00-F-TR | 2MM-R-DXX-HS-00-M-TR | 2MM-R-DXX-HS-00-H-TR | | |
| | | | 2314939 | 2314940 | 2314941 | 2314942 | Tube w/o cap | |
| | | | 2MM-R-DXX-HS-00-T-TB | 2MM-R-DXX-HS-00-F-TB | 2MM-R-DXX-HS-00-M-TB | 2MM-R-DXX-HS-00-H-TB | | |

AMPMODU 2 MM INTERCONNECTION SYSTEM

BOARD RECEPTACLES

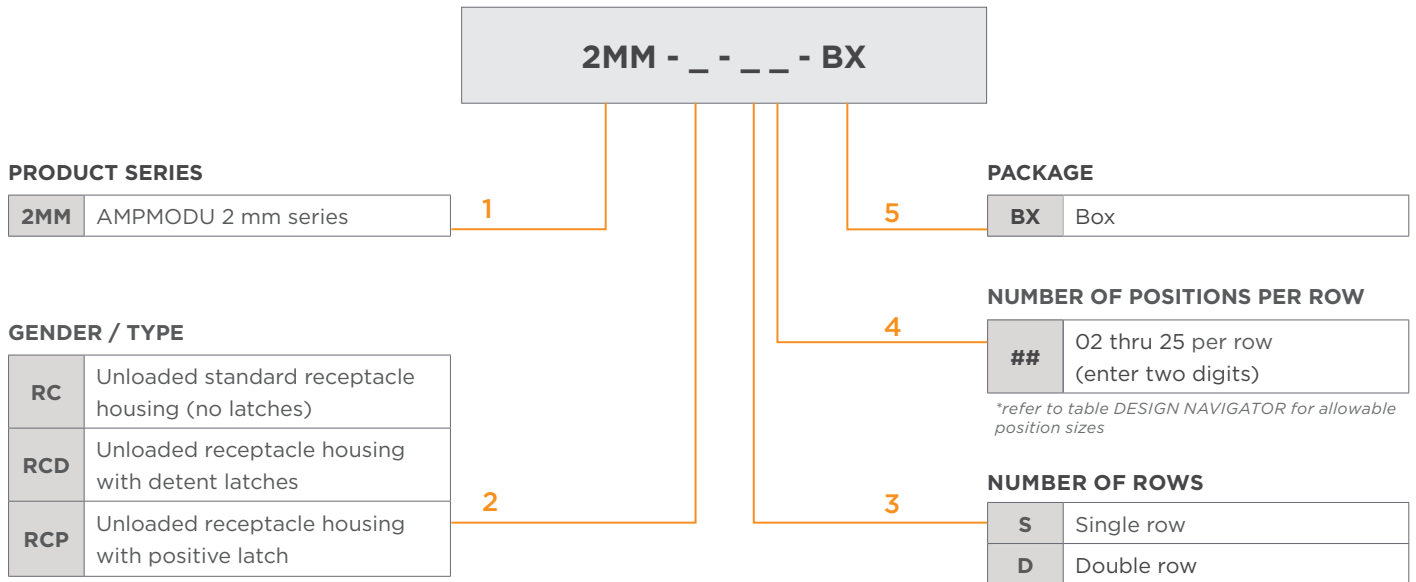
MATEABLE PARTS

| Board Receptacles | B-t-B Orientation | Mateable Headers | | |
|---|--|---|--|------------------|
| <p>Vertical Orientation</p> <p>2MM - R - __ - VT</p>  <p>2MM - R - __ - VTR</p>  <p>2MM - R - __ - VS</p>  | <p>Parallel</p>  | <p>Vertical Breakaway Headers</p> <p>2MM - HB - __ - VT</p>  <p>2MM - HB - __ - VS</p>  | <p>Page 9-10</p> | |
| | <p>Parallel</p>  | <p>Vertical Shrouded Headers w/ Detent Latches</p> <p>2MM - HSD - __ - VT</p>  <p>2MM - HSD - __ - VS</p>  | <p>Page 11-12</p> | |
| | <p>Perpendicular</p>  | <p>Horizontal Breakaway Headers</p> <p>2MM - HB - __ - HT</p>  | <p>Page 9-10</p> | |
| | <p>Perpendicular</p>  | <p>Horizontal Shrouded Headers w/ Detent Latches</p> <p>2MM - HSD - __ - HT</p>  | <p>Page 11-12</p> | |
| | <p>Horizontal Orientation</p> <p>2MM - R - __ - HT</p>  <p>2MM - R - __ - HS</p>  | <p>Perpendicular</p>  | <p>Vertical Breakaway Headers</p> <p>2MM - HB - __ - VT</p>  | <p>Page 9-10</p> |
| | | | <p>2MM - HB - __ - VS</p>  | |

AMPMODU 2 MM INTERCONNECTION SYSTEM

CRIMP SNAP-IN RECEPTACLES



SMART PART NUMBER DEFINITION



SMART PN EXAMPLES

- AMPMODU 2 mm, crimp receptacle with detent latches, double row, 16 positions (2 x 8), box: **2MM-RCD-D08-BX**

DESIGN NAVIGATOR

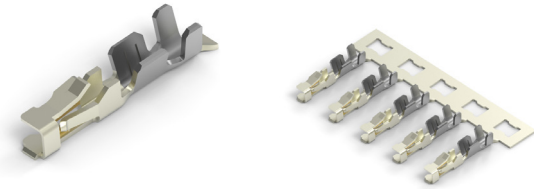
| Housing Style | Number of Rows | Number of Positions per Row | Packaging Method |
|-----------------------|--|--------------------------------|------------------|
| Standard (no latches) | Single row  | 02 thru 25 | Box |
| | Double row  | 02 thru 25 per row | |
| With detent latches | Single row  | 07 thru 16 | |
| | Double row  | 07 thru 16, 20, 22, 25 per row | |
| With positive latch | Single row  | 03 thru 16 | |
| | Double row  | 03 thru 16 per row | |

* Tube packaging is available upon request.

AMPMODU 2 MM INTERCONNECTION SYSTEM

CRIMP SNAP-IN RECEPTACLES

RECEPTACLE CONTACT



2MM - RT - _ - _ - _

PRODUCT SERIES

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

GENDER / TYPE

| | |
|-----------|--------------------------|
| RT | Receptacle crimp contact |
|-----------|--------------------------|

WIRE SIZE

| | |
|----------|--|
| S | AWG 30-28 [0.05 - 0.08 mm ²] |
| M | AWG 28-24 [0.08 - 0.22 mm ²] |

PACKAGING

| | |
|-----------|---------------------------|
| ST | Strip form (30K pcs/reel) |
| LP | Loose piece |

PLATING

| | |
|----------|---------------------------------|
| T | Tin |
| F | 4 μ" [0.1 μm] gold (gold flash) |
| M | 15 μ" [0.38 μm] gold |
| H | 30 μ" [0.76 μm] gold |

SMART PN EXAMPLES

- AMPMODU 2 mm, crimp receptacle contact, AWG 30 - 28, tin, 30kpcs/reel: **2MM-RT-S-T-ST**




APPLICATION TOOLING

| Tooling | Images | Contact Package | Contact AWG 30-28 | Contact AWG 28-24 |
|------------------|--------|--|----------------------------------|----------------------------------|
| Hand tool | | Loose Piece (LP) | <u>2326270-1</u> | <u>2326267-1</u> |
| Ocean applicator | | 30k pcs per/reel (ST) | Upon request | Upon request |
| Extraction tool | | <u>9-1579028-8</u> <i>Suitable for all receptacles - to disengage locking lance from front window.</i> | | |
| | | <u>843477-3</u> <i>Suitable for standard and detent latch receptacles only - to disengage locking lance from side, top or bottom windows.</i> | | |




AMPMODU 2 MM INTERCONNECTION SYSTEM

CRIMP SNAP-IN RECEPTACLES

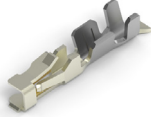
SINGLE ROW

| Product Type | Drawing Number | Base Number | Available Positions |
|---|----------------|----------------|---------------------|
| Standard (no latches) | 2316102 | 2316102 | 2-25 |
|  | | 2MM-RC-SXX-BX | |
| With detent latches | 2316103 | 2316103 | 7-16 |
|  | | 2MM-RCD-SXX-BX | |
| With positive latch | 2316104 | 2316104 | 3-16 |
|  | | 2MM-RCP-SXX-BX | |

DOUBLE ROW

| Product Type | Drawing Number | Base Number | Available Positions |
|---|----------------|----------------|-----------------------|
| Standard (no latches) | 2316108 | 2316108 | 4-50 |
|  | | 2MM-RC-DXX-BX | |
| With detent latches | 2316109 | 2316109 | 14-32, 34, 40, 44, 50 |
|  | | 2MM-RCD-DXX-BX | |
| With positive latch | 2316110 | 2316110 | 6-32 |
|  | | 2MM-RCP-DXX-BX | |


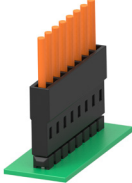

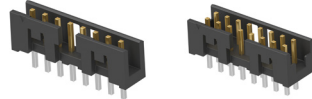



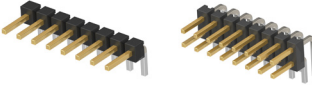
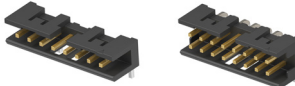
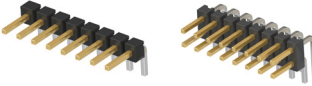
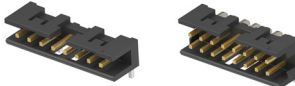

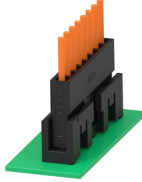
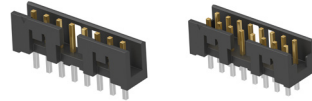
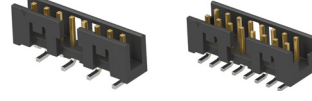
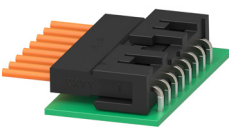
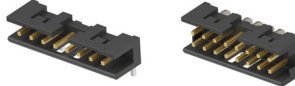
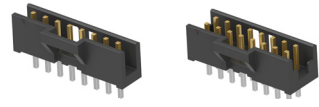
RECEPTACLE CONTACTS

| Wire Size | Product Image | Drawing Number | Plating | Packaging Method | |
|---|---|----------------|--------------------|------------------|---------------|
| | | | | 30Kpc Reel | Loose Piece |
| AWG 28-24 [0.08 - 0.22 mm ²] |  | 2316113 | Tin | 2-2316113-2 | 2-2316113-3 |
| | | | | 2MM-RT-M-T-ST | 2MM-RT-M-T-LP |
| | | | 4μ" [0.1μm] Gold | 3-2316113-3 | 3-2316113-4 |
| | | | | 2MM-RT-M-F-ST | 2MM-RT-M-F-LP |
| | | | 15μ" [0.38μm] Gold | 4-2316113-4 | 4-2316113-5 |
| | | | | 2MM-RT-M-M-ST | 2MM-RT-M-M-LP |
| AWG 30-28 [0.05 - 0.08 mm ²] | | 2316114 | Tin | 5-2316113-5 | 5-2316113-6 |
| | | | | 2MM-RT-M-H-ST | 2MM-RT-M-H-LP |
| | | | 4μ" [0.1μm] Gold | 2-2316114-2 | 2-2316114-3 |
| | | | | 2MM-RT-S-T-ST | 2MM-RT-S-T-LP |
| | | | 15μ" [0.38μm] Gold | 3-2316114-3 | 3-2316114-4 |
| | | | | 2MM-RT-S-F-ST | 2MM-RT-S-F-LP |
| 30μ" [0.76μm] Gold | 4-2316114-4 | 4-2316114-5 | | | |
| | 2MM-RT-S-M-ST | 2MM-RT-S-M-LP | | | |
| | | | 5-2316114-5 | 5-2316114-6 | |
| | | | 2MM-RT-S-H-ST | 2MM-RT-S-H-LP | |

AMPMODU 2 MM INTERCONNECTION SYSTEM

CRIMP SNAP-IN RECEPTACLES

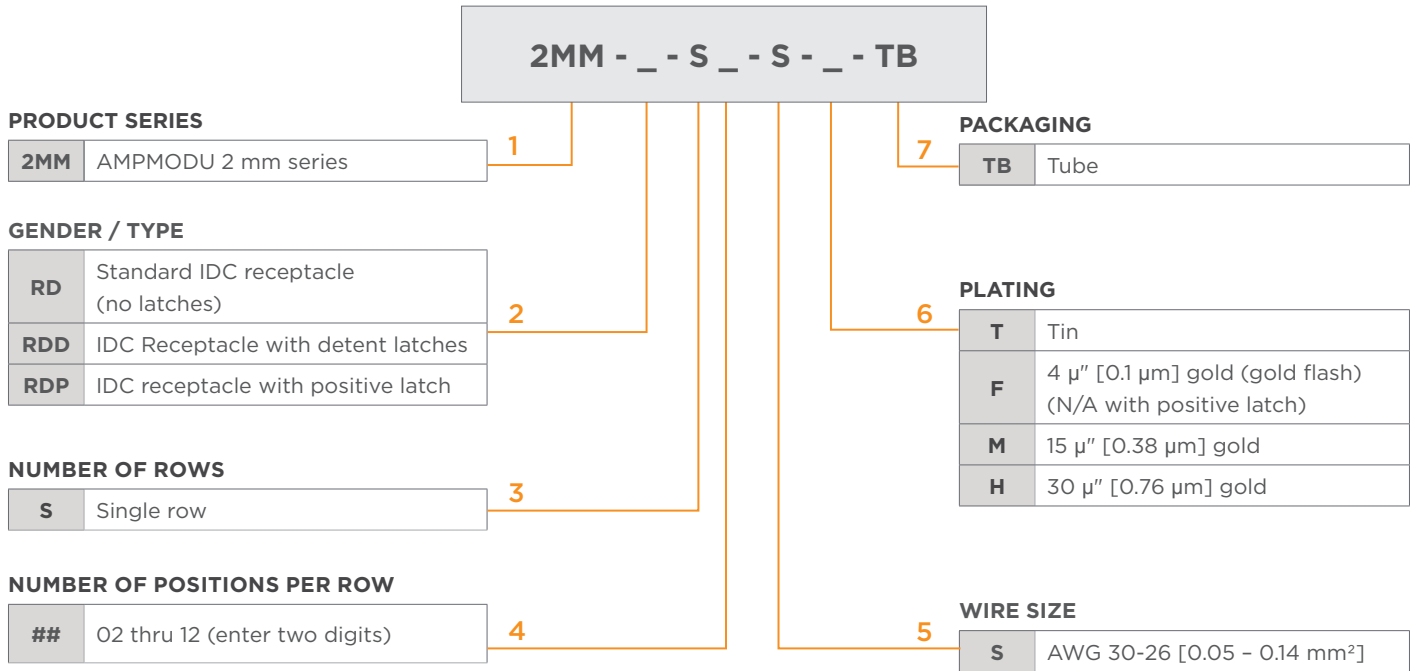
MATEABLE PARTS

| Wire Receptacles | W-t-B Orientation | Mateable Headers | | | |
|---|---|--|-----------|--|------------|
| Standard (No Latches) | | Vertical Breakaway Headers | Page 9-10 | Vertical Shrouded Headers w/ Detent Latches | Page 11-12 |
| 2MM - RC - __  |  | 2MM - HB - __ - VT  | | 2MM - HSD - __ - VT  | |
| | | 2MM - HB - __ - VS  | | 2MM - HSD - __ - VS  | |
| | | Horizontal Breakaway Headers | Page 9-10 | Horizontal Shrouded Headers w/ Detent Latches | Page 11-12 |
| 2MM - RCD - __  |  | 2MM - HB - __ - HT  | | 2MM - HSD - __ - HT  | |
| w/ Detent Latches | | Vertical Shrouded Headers w/ Detent Latches | | Page 11-12 | |
| 2MM - RCP - __  |  | 2MM - HSD - __ - VT  | | | |
| | | 2MM - HSD - __ - VS  | | | |
| w/ Positive Latch | | Horizontal Shrouded Headers w/ Detent Latches | | Page 11-12 | |
| | | 2MM - HSD - __ - HT  | | | |
| | | Vertical Shrouded Headers w/ Positive Latch | | Page 13-14 | |
| | | 2MM - HSP - __ - VT  | | | |
| | | 2MM - HSP - __ - VS  | | | |
| | | Horizontal Shrouded Headers w/ Positive Latch | | Page 13-14 | |
| | | 2MM - HSP - __ - HT  | | | |

AMPMODU 2 MM INTERCONNECTION SYSTEM

INSULATION DISPLACEMENT CONTACT (IDC) RECEPTACLES

SMART PART NUMBER DEFINITION



*see table DESIGN NAVIGATOR for available positions

SMART PN EXAMPLES

- AMPMODU 2 mm, IDC receptacle with positive latch, single row, 7 positions (1 x 7), AWG 30 - 26, 30μ" [0.76 μm] gold, tube: **2MM-RDP-S07-S-H-TB**






RECEPTACLE HOUSINGS

| Type | Images | Wire size | Plating | Number of Positions |
|-----------------------|--------|---|----------------------|---------------------|
| Standard (no latches) | | AWG 30-26 [0.05 - 0.14 mm ²] | 30 μ" [0.76 μm] gold | 02 thru 12 |
| | | | 15 μ" [0.38 μm] gold | |
| | | | 4 μ" [0.1 μm] gold | |
| | | | Tin | |
| With detent latches | | AWG 30-26 [0.05 - 0.14 mm ²] | 30 μ" [0.76 μm] gold | 07 thru 12 |
| | | | 15 μ" [0.38 μm] gold | |
| | | | 4 μ" [0.1 μm] gold | |
| | | | Tin | |
| With positive latch | | AWG 30-26 [0.05 - 0.14 mm ²] | 30 μ" [0.76 μm] gold | 03 thru 12 |
| | | | 15 μ" [0.38 μm] gold | |
| | | | Tin | |

AMPMODU 2 MM INTERCONNECTION SYSTEM

INSULATION DISPLACEMENT CONTACT (IDC) RECEPTACLES

APPLICATION TOOLING

| Tooling | Images | TE Part Number |
|----------------------------|---|--|
| Terminating head* |  | <u>2326300-1</u> |
| Pistol grip manual handle* |  | <u>58074-1</u> |
| Pneumatic handle* |  | <u>58075-1</u> |
| Extraction tool |  | <u>9-1579028-8</u> <i>Suitable for all receptacles - to disengage locking lance from front window.</i> |
| |  | <u>843477-3</u> <i>Suitable for standard and detent latch receptacles only - to disengage locking lance from side, top or bottom windows.</i> |

*Terminating head needs to be used with the manual or pneumatic handle.

AMPMODU 2 MM INTERCONNECTION SYSTEM

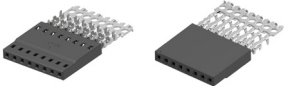
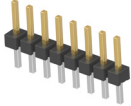
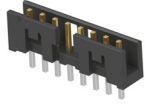



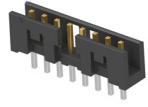
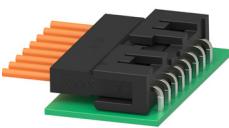
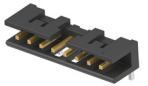

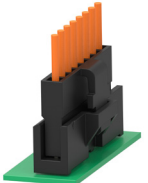
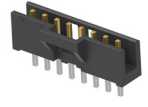
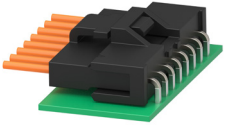
INSULATION DISPLACEMENT CONTACT (IDC) RECEPTACLES

| Product Type | Drawing Number | Wire Size | Plating | Base Number | Available Positions |
|-----------------------|--|--|--------------------|--------------------|--------------------------------------|
| Standard (no latches) |  2317222 | AWG 30-26 [0.05 - 0.14 mm ²] | 30μ" [0.76μm] Gold | 2317206 | 2, 3, 4, 5, 6 7, 8, 9, 10, 11, 12 |
| | | | | 2MM-RD-SXX-S-H-TB | |
| 15μ" [0.38μm] Gold | | | 2317205 | | |
| | | | 2MM-RD-SXX-S-M-TB | | |
| 4μ" [0.1μm] Gold | | | 2317204 | | |
| | | | 2MM-RD-SXX-S-F-TB | | |
| Tin | | | 2317222 | | |
| | | | 2MM-RD-SXX-S-T-TB | | |
| With detent latches |  2317223 | AWG 30-26 [0.05 - 0.14 mm ²] | 30μ" [0.76μm] Gold | 2317209 | 7, 8, 9, 10, 11, 12 |
| | | | | 2MM-RDD-SXX-S-H-TB | |
| 15μ" [0.38μm] Gold | | | 2317208 | | |
| | | | 2MM-RDD-SXX-S-M-TB | | |
| 4μ" [0.1μm] Gold | | | 2317207 | | |
| | | | 2MM-RDD-SXX-S-F-TB | | |
| Tin | | | 2317223 | | |
| | | | 2MM-RDD-SXX-S-T-TB | | |
| With positive latch |  2317224 | AWG 30-26 [0.05 - 0.14 mm ²] | 30μ" [0.76μm] Gold | 2317212 | 3, 4, 5, 6 7, 8, 9, 10, 11, 12 |
| | | | | 2MM-RDP-SXX-S-H-TB | |
| 15μ" [0.38μm] Gold | | | 2317211 | | |
| | | | 2MM-RDP-SXX-S-M-TB | | |
| 4μ" [0.1μm] Gold | | | Up on request | | |
| | | | Up on request | | |
| Tin | | | 2317224 | | |
| | | | 2MM-RDP-SXX-S-T-TB | | |

AMPMODU 2 MM INTERCONNECTION SYSTEM

INSULATION DISPLACEMENT CONTACT (IDC) RECEPTACLES

MATEABLE PARTS Single row Only

| Wire Receptacles | W-t-B Orientation | Mateable Headers | | | |
|---|---|--|--|---|--|
| Standard (No Latches) |  | Vertical Breakaway Headers Page 9-10 | 2MM - HB - __ - VT  | Vertical Shrouded Headers w/ Detent Latches Page 11-12 | 2MM - HSD - __ - VT  |
| 2MM - RD - __  | | 2MM - HB - __ - VS  | 2MM - HSD - __ - VS  | | |
| |  | Horizontal Breakaway Headers Page 9-10 | 2MM - HB - __ - HT  | Horizontal Shrouded Headers w/ Detent Latches Page 11-12 | 2MM - HSD - __ - HT  |
| | | 2MM - HB - __ - HT | 2MM - HSD - __ - HT | | |
| w/ Detent Latches |  | Vertical Shrouded Headers w/ Detent Latches Page 11-12 | 2MM - HSD - __ - VT  | | |
| 2MM - RDD - __  | | 2MM - HSD - __ - VS  | | | |
| |  | Horizontal Shrouded Headers w/ Detent Latches Page 11-12 | 2MM - HSD - __ - HT  | | |
| | | 2MM - HSD - __ - HT | | | |
| w/ Positive Latch |  | Vertical Shrouded Headers w/ Positive Latch Page 13-14 | 2MM - HSP - __ - VT  | | |
| 2MM - RDP - __  | | 2MM - HSP - __ - VS  | | | |
| |  | Horizontal Shrouded Headers w/ Positive Latch Page 13-14 | 2MM - HSP - __ - HT  | | |
| | | 2MM - HSP - __ - HT | | | |

AMPMODU 2 MM INTERCONNECTION SYSTEM

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