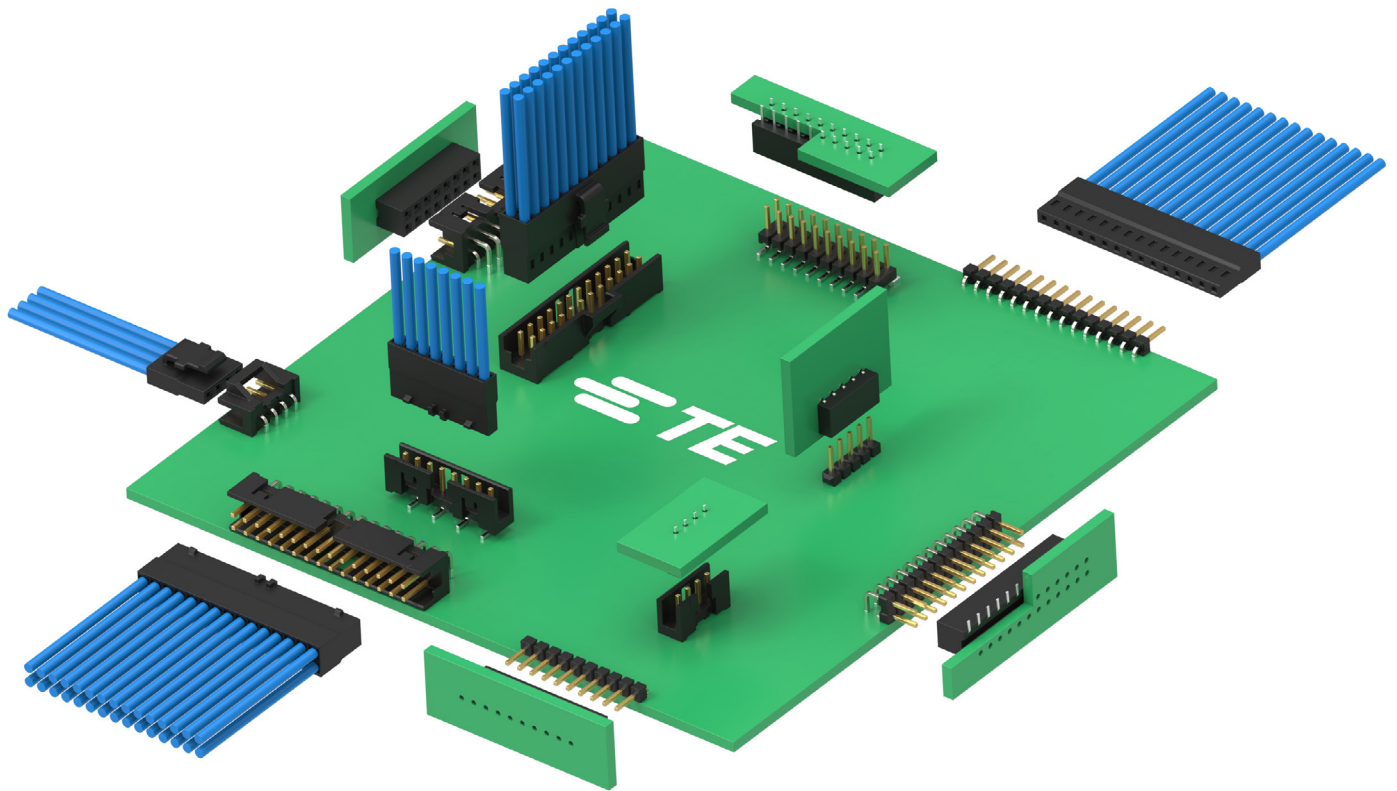




# AMPMODU 2 MM INTERCONNECTION SYSTEM

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Quick Reference Guide

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## AMPMODU 2 MM INTERCONNECTION SYSTEM

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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: 30µ" [0.76 µm] gold, 15µ" [0.38 µm] gold, 4µ" [0.1 µm] 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

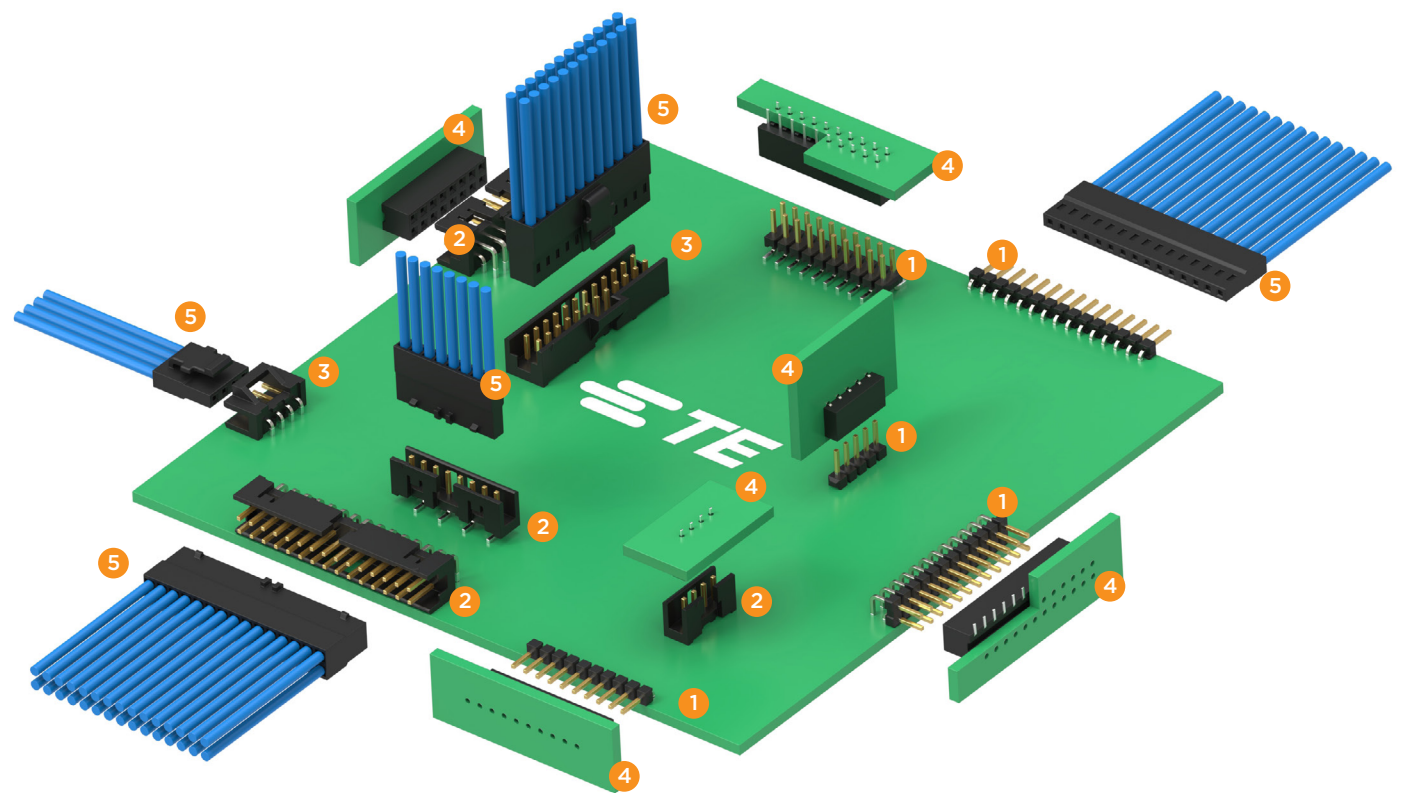
- Centerline: 0.079" [2 mm]
- 0.020" [0.50 mm] square pins for headers
- Dual-beam receptacle contact
- Multiple solder tail lengths for various PCB thicknesses, 0.063" to 0.094" [1.6 mm to 2.4 mm]
- High temperature plastic (LCP) housing
- Board connectors available in tube and tape & reel packaging
- 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



|   |                                                    |              |
|---|----------------------------------------------------|--------------|
| 1 | BREAKAWAY HEADERS                                  | Page 9 - 12  |
| 2 | SHROUDED HEADERS W/ DETENT LATCHES                 | Page 13 - 16 |
| 3 | SHROUDED HEADERS W/ POSITIVE LATCH                 | Page 17 - 20 |
| 4 | BOARD RECEPTACLES                                  | Page 21 - 25 |
|   | CRIMP SNAP-IN RECEPTACLES                          | Page 26 - 29 |
| 5 | INSULATION DISPLACEMENT CONTACTS (IDC) RECEPTACLES | Page 30 - 33 |

## 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: <a href="#">108-64040</a>                     |
|                              | Board Receptacles: <a href="#">108-64040</a>           |
|                              | Crimp Snap-In Receptacles: <a href="#">108-64040-1</a> |
|                              | IDC Receptacles: <a href="#">108-64040-2</a>           |
| Application Specification    | Headers: <a href="#">114-64040</a>                     |
|                              | Board Receptacles: <a href="#">114-32186</a>           |
|                              | Crimp Snap-In Receptacles: <a href="#">114-32173</a>   |
|                              | IDC Receptacles: <a href="#">114-32175</a>             |

#### 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/<br>Unmating Force                               | Mating: 2.2 N max.                                                                                                |
|                                                                   | Unmating: 0.2 N min.                                                                                              |
| Contact Retention<br>Force in Housing<br>(Board Connectors)       | 5 N min.                                                                                                          |
| Contact Retention<br>Force in Housing<br>(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<br>Engage/Disengage<br>Force (without<br>Contacts) | Engage: 6 N max.                                                                                                  |
|                                                                   | Disengage: 20 N min.                                                                                              |
| Solderability                                                     | Reflow Solderable,<br>Capable up to 260°C                                                                         |

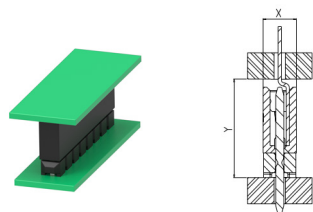
# AMPMODU 2 MM INTERCONNECTION SYSTEM

## CONFIGURATIONS

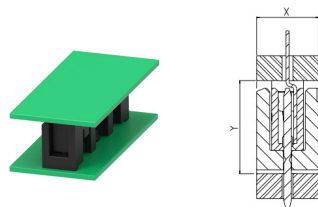
| Headers                                         |                                                  |                                                   |
|-------------------------------------------------|--------------------------------------------------|---------------------------------------------------|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

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

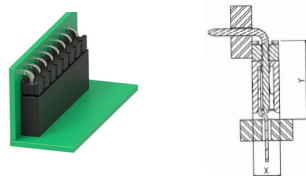
## BOARD-TO-BOARD



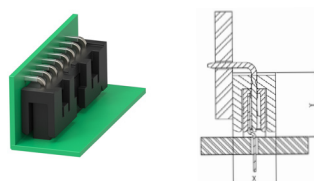
| Application                                                              |            | X (Single Row)   | X (Double Row)   | Y                |
|--------------------------------------------------------------------------|------------|------------------|------------------|------------------|
| Parallel boards - vertical board receptacle and vertical shrouded header | <b>A 1</b> | 0.083" [2.10 mm] | 0.161" [4.10 mm] | 0.236" [6.00 mm] |
|                                                                          | <b>B 1</b> | 0.083" [2.10 mm] | 0.161" [4.10 mm] | 0.285" [7.25 mm] |
|                                                                          | <b>A 2</b> | 0.083" [2.10 mm] | 0.161" [4.10 mm] | 0.244" [6.20 mm] |
|                                                                          | <b>B 2</b> | 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 | <b>D 1</b> | 0.157" [4.00 mm] | 0.244" [6.20 mm] | 0.236" [6.00 mm] |
|                                                                          | <b>E 1</b> | 0.157" [4.00 mm] | 0.244" [6.20 mm] | 0.285" [7.25 mm] |
|                                                                          | <b>D 2</b> | 0.157" [4.00 mm] | 0.244" [6.20 mm] | 0.244" [6.20 mm] |
|                                                                          | <b>E 2</b> | 0.157" [4.00 mm] | 0.244" [6.20 mm] | 0.293" [7.45 mm] |



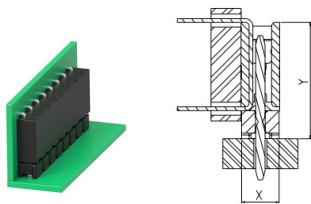
| Application                                                                      |            | X (Single Row)   | X (Double Row)   | Y                |
|----------------------------------------------------------------------------------|------------|------------------|------------------|------------------|
| Perpendicular boards - vertical board receptacle and horizontal breakaway header | <b>C 1</b> | 0.083" [2.10 mm] | 0.161" [4.10 mm] | 0.236" [6.00 mm] |
|                                                                                  | <b>C 2</b> | 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 | <b>F 1</b> | 0.157" [4.00 mm] | 0.244" [6.20 mm] | 0.236" [6.00 mm] |
|                                                                                 | <b>F 2</b> | 0.157" [4.00 mm] | 0.244" [6.20 mm] | 0.244" [6.20 mm] |

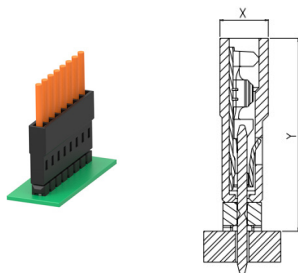
CONFIGURATIONS - CONTINUED

BOARD-TO-BOARD

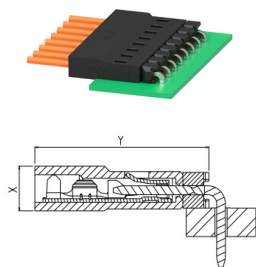


| Application                                                                               |     | X (Single Row)   | X (Double Row)   | Y                |
|-------------------------------------------------------------------------------------------|-----|------------------|------------------|------------------|
| Perpendicular boards<br>- horizontal board<br>receptacle and vertical<br>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                                                                                               | Row        | Crimp               |                      | IDC                |                     |
|-----------------------------------------------------------------------------------------------------------|------------|---------------------|----------------------|--------------------|---------------------|
| Perpendicular to PCB – non-latching solution – breakaway header and standard wire receptacle (no latches) |            | X                   | Y                    | X                  | Y                   |
|  5                       | Single row | 0.099”<br>[2.51 mm] | 0.394”<br>[10.00 mm] | 0.094”<br>[2.4 mm] | 0.57”<br>[14.50 mm] |
|                                                                                                           | Double row | 0.185”<br>[4.70 mm] | 0.394”<br>[10.00 mm] | -                  | -                   |
|  5                     | Single row | 0.099”<br>[2.51 mm] | 0.443”<br>[11.25 mm] | 0.094”<br>[2.4 mm] | 0.62”<br>[15.75 mm] |
|                                                                                                           | Double row | 0.185”<br>[4.70 mm] | 0.443”<br>[11.25 mm] | -                  | -                   |

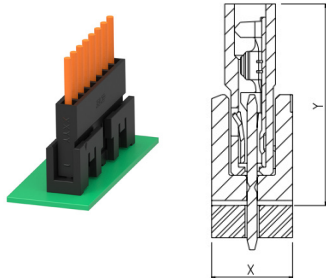


| Application                                                                                                                                                             | Row        | Crimp               |                      | IDC                |                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------|----------------------|--------------------|---------------------|
| Parallel to PCB<br>- non-latching<br>solution -<br>breakaway header<br>and standard wire<br>receptacle (no<br>latches)                                                  |            | X                   | Y                    | X                  | Y                   |
|   | Single row | 0.099"<br>[2.51 mm] | 0.394"<br>[10.00 mm] | 0.094"<br>[2.4 mm] | 0.57"<br>[14.50 mm] |
|                                                                                                                                                                         | Double row | 0.185"<br>[4.70 mm] | 0.394"<br>[10.00 mm] | -                  | -                   |

# AMPMODU 2 MM INTERCONNECTION SYSTEM

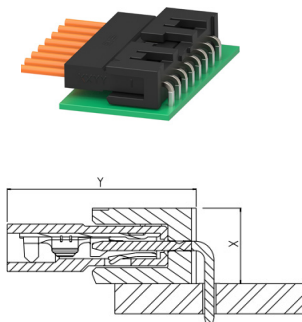
## CONFIGURATIONS - CONTINUED

### WIRE-TO-BOARD



| Application                                                                                                                         | Row        | Crimp            |                   | IDC              |                  |
|-------------------------------------------------------------------------------------------------------------------------------------|------------|------------------|-------------------|------------------|------------------|
|                                                                                                                                     |            | X                | Y                 | X                | Y                |
| D 5<br>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] | -                | -                |
| E 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                |
| D 6<br>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] | 0.57" [14.50 mm] |
|                                                                                                                                       | Double row | 0.244" [6.20 mm] | 0.394" [10.00 mm] | -                | -                |
| E 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] | -                | -                |

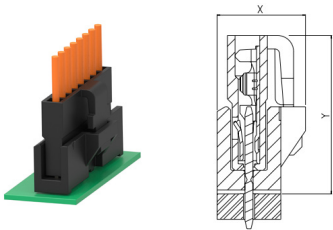


| Application                                                                                                                    | Row        | Crimp            |                   | IDC              |                  |
|--------------------------------------------------------------------------------------------------------------------------------|------------|------------------|-------------------|------------------|------------------|
|                                                                                                                                |            | X                | Y                 | X                | Y                |
| F 5<br>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] | -                | -                |

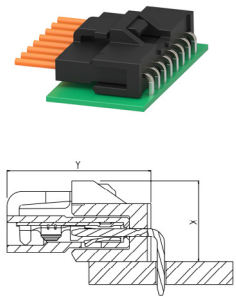
| Application                                                                                                                     | Row        | Crimp            |                   | IDC              |                  |
|---------------------------------------------------------------------------------------------------------------------------------|------------|------------------|-------------------|------------------|------------------|
|                                                                                                                                 |            | X                | Y                 | X                | Y                |
| F 6<br>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] | -                | -                |

CONFIGURATIONS - CONTINUED

WIRE-TO-BOARD



| Application                                                                                                                                 | Row        | Crimp            |                   | IDC              |                  |
|---------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------|-------------------|------------------|------------------|
|                                                                                                                                             |            | X                | Y                 | X                | Y                |
| G 7<br>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] | -                | -                |
| H 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                |
| J 7<br>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] | -                | -                |

# AMPMODU 2 MM INTERCONNECTION SYSTEM

## BREAKAWAY HEADERS

### SMART PART NUMBER DEFINITION

2MM - HB - \_ \_ - \_ - \_ - \_ - \_

1

2

3

4

5

6

7

8

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

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

\*see table DESIGN NAVIGATOR for guidance

#### 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       |
|                           |  | 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       |

INDUSTRIAL / AMPMODU 2 MM INTERCONNECTION SYSTEM

9

# 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                             | 4μ" [0.1μm] Gold       | 15μ" [0.38μm] Gold     | 30μ" [0.76μm] Gold     |              |                     |
| <b>Vertical Through Hole</b><br><br>     | 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 |              |                     |
| <b>Horizontal Through Hole</b><br><br> | 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 |              |                     |
| <b>Vertical Surface Mount</b><br><br>  | 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

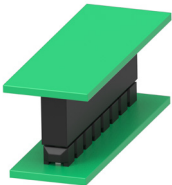
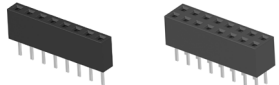
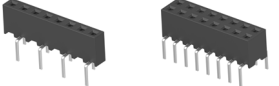
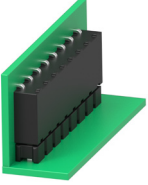
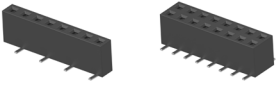
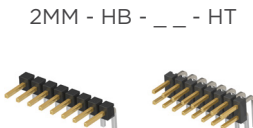
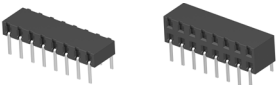
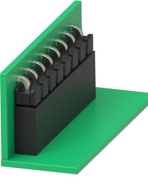
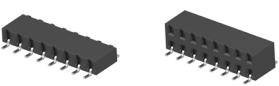
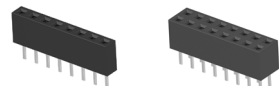
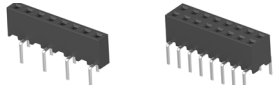
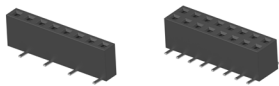
#### DOUBLE ROW

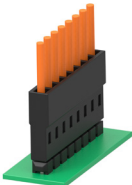
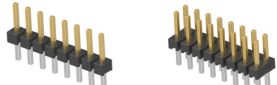
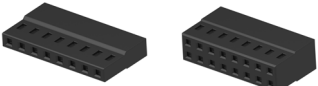
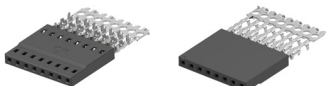
| Product Type                                                                                                              | Drawing Number | Solder Lead Length | Base Number / Smart Part Number |                        |                        |                        | Packaging    | Available Positions |
|---------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|---------------------------------|------------------------|------------------------|------------------------|--------------|---------------------|
|                                                                                                                           |                |                    | Tin                             | 4μ" [0.1μm] Gold       | 15μ" [0.38μm] Gold     | 30μ" [0.76μm] Gold     |              |                     |
| <b>Vertical Through Hole</b><br><br>     | 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 |              |                     |
| <b>Horizontal Through Hole</b><br><br> | 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 |              |                     |
| <b>Vertical Surface Mount</b><br><br>  | 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

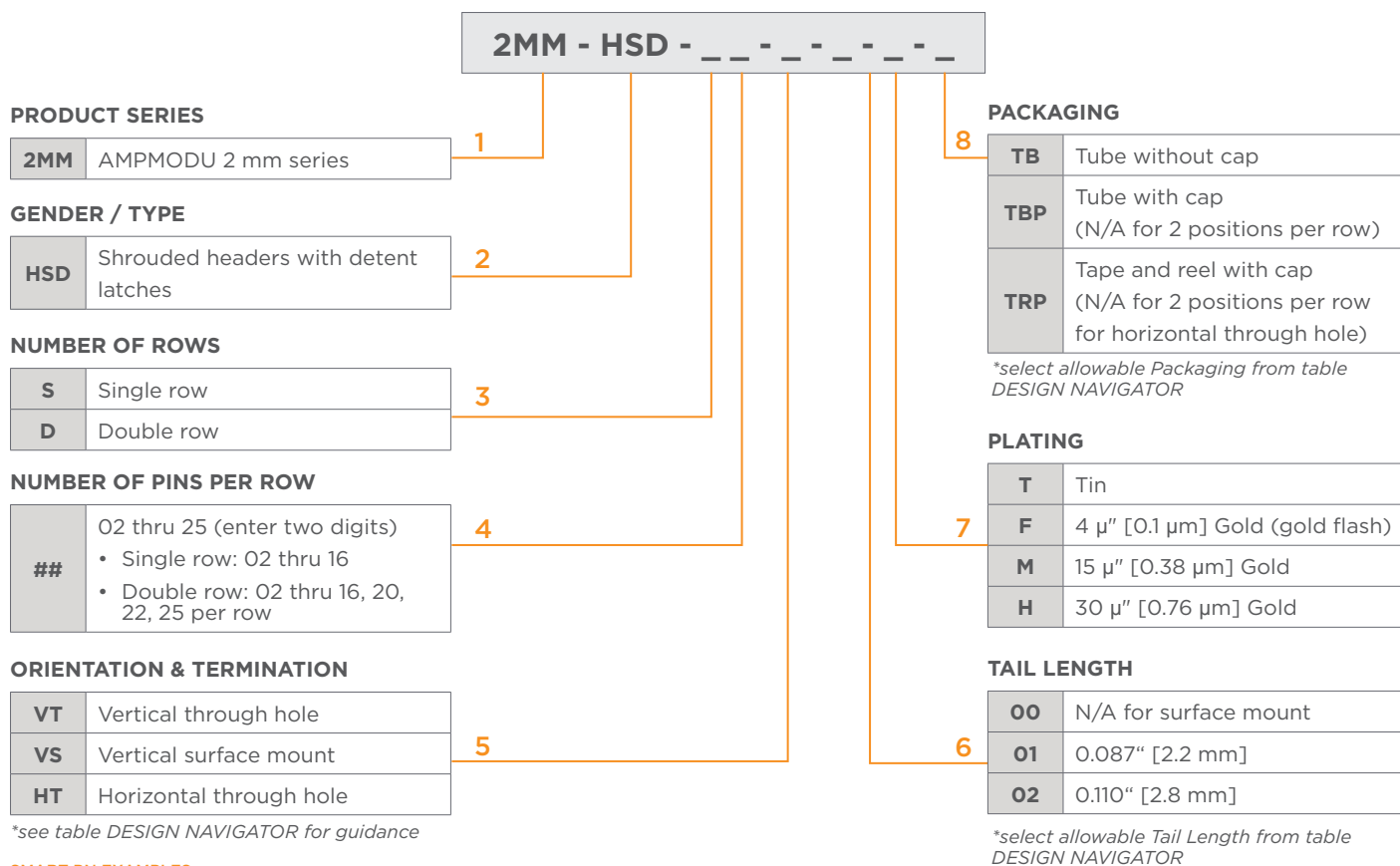
| Breakaway Headers                                                                                         | B-t-B Orientation                                                                                    | Mateable Receptacles                                                                                        |                   |
|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------|
| <b>Vertical Orientation</b>                                                                               | Parallel<br>        | <b>Vertical Board Receptacles</b>                                                                           | <b>Page 15-16</b> |
| 2MM - HB - __ - VT<br>   |                                                                                                      | 2MM - R - __ - VT<br>    |                   |
| 2MM - HB - __ - VS<br>   |                                                                                                      | 2MM - R - __ - VTR<br>   |                   |
|                                                                                                           | Perpendicular<br>   | 2MM - R - __ - VS<br>    |                   |
| <b>Horizontal Orientation</b>                                                                             |                                                                                                      | <b>Horizontal Board Receptacles</b>                                                                         | <b>Page 15-16</b> |
| 2MM - HB - __ - HT<br> |                                                                                                      | 2MM - R - __ - HT<br>    |                   |
|                                                                                                           | Perpendicular<br> | 2MM - R - __ - HS<br>    |                   |
|                                                                                                           |                                                                                                      | <b>Vertical Board Receptacles</b>                                                                           | <b>Page 15-16</b> |
|                                                                                                           |                                                                                                      | 2MM - R - __ - VT<br>   |                   |
|                                                                                                           |                                                                                                      | 2MM - R - __ - VTR<br> |                   |
|                                                                                                           |                                                                                                      | 2MM - R - __ - VS<br>  |                   |

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

# AMPMODU 2 MM INTERCONNECTION SYSTEM

## SHROUDED HEADERS - WITH DETENT LATCHES

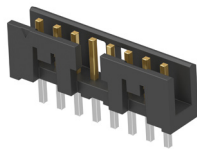
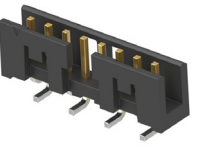
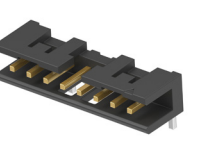
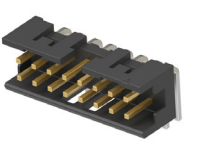
### SMART PART NUMBER DEFINITION



#### 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

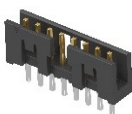
### DESIGN NAVIGATOR

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

## 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      |              |                     |
| <b>Vertical Through Hole</b><br><br>     | 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 |              |                     |
| <b>Horizontal Through Hole</b><br><br> | 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 |              |                     |
| <b>Vertical Surface Mount</b><br><br>  | 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

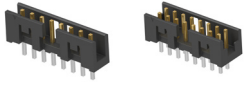
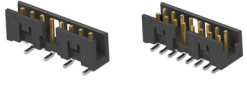
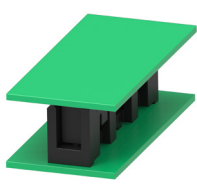
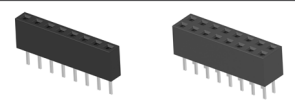
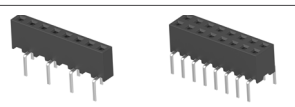
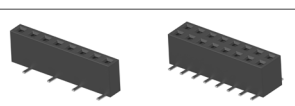
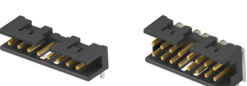
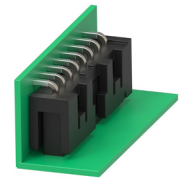
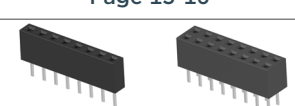
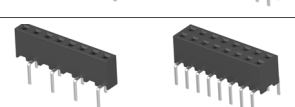
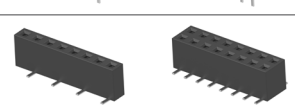
#### DOUBLE ROW

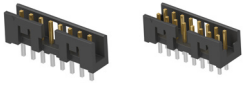
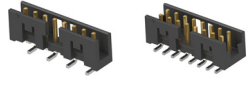
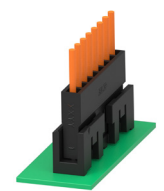
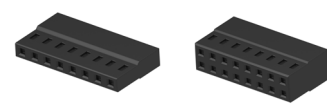
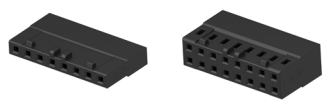
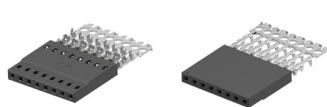
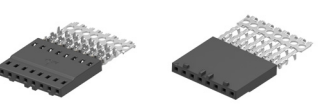
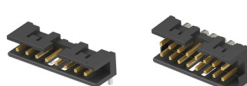
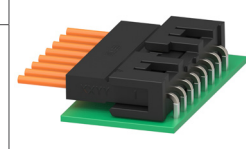
| Product Type                                                                                                   | Drawing Number | Solder Lead Length | Base Number / Smart Part Number |                         |                         |                         | Packaging    | Available Positions |
|----------------------------------------------------------------------------------------------------------------|----------------|--------------------|---------------------------------|-------------------------|-------------------------|-------------------------|--------------|---------------------|
|                                                                                                                |                |                    | Tin                             | 4μ" [0.1μm] Gold        | 15μ" [0.38μm] Gold      | 30μ" [0.76μm] Gold      |              |                     |
| Vertical Through Hole<br>     | 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  | Tube w/ cap  | 6-32, 40, 44, 50    |
|                                                                                                                |                |                    | 2823875                         | 2823876                 | 2823877                 | 2823878                 |              |                     |
|                                                                                                                |                |                    | 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 | T&R w/ cap   | 4-32, 40, 44, 50    |
|                                                                                                                |                |                    | 2823505                         | 2823506                 | 2823507                 | 2823508                 |              |                     |
|                                                                                                                |                |                    | 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  | Tube w/ cap  | 6-32, 40, 44, 50    |
|                                                                                                                |                |                    | 2823883                         | 2823884                 | 2823885                 | 2823886                 |              |                     |
|                                                                                                                |                |                    | 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 | T&R w/ cap   | 4-32, 40, 44, 50    |
|                                                                                                                |                |                    | 2823509                         | 2823510                 | 2823511                 | 2823512                 |              |                     |
|                                                                                                                |                |                    | 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<br> | 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  | Tube w/ cap  | 6-32, 40, 44, 50    |
|                                                                                                                |                |                    | 2823899                         | 2823900                 | 2823901                 | 2823902                 |              |                     |
|                                                                                                                |                |                    | 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 | T&R w/ cap   | 6-32, 40, 44, 50    |
|                                                                                                                |                |                    | 2823521                         | 2823522                 | 2823523                 | 2823524                 |              |                     |
|                                                                                                                |                |                    | 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  | Tube w/ cap  | 6-32, 40, 44, 50    |
|                                                                                                                |                |                    | 2823891                         | 2823892                 | 2823893                 | 2823894                 |              |                     |
|                                                                                                                |                |                    | 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 | T&R w/ cap   | 6-32, 40, 44, 50    |
|                                                                                                                |                |                    | 2823525                         | 2823526                 | 2823527                 | 2823528                 |              |                     |
|                                                                                                                |                |                    | 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<br>  | 2823367        | -                  | 2823367                         | 2823368                 | 2823369                 | 2823370                 | T&R w/ cap   | 4-32, 40, 44, 50    |
|                                                                                                                |                |                    | 2MM-HSD-DXX-VS-00-T-TRP         | 2MM-HSD-DXX-VS-00-F-TRP | 2MM-HSD-DXX-VS-00-M-TRP | 2MM-HSD-DXX-VS-00-H-TRP | Tube w/ cap  | 6-32, 40, 44, 50    |
|                                                                                                                |                |                    | 2823907                         | 2823908                 | 2823909                 | 2823910                 |              |                     |
|                                                                                                                |                |                    | 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

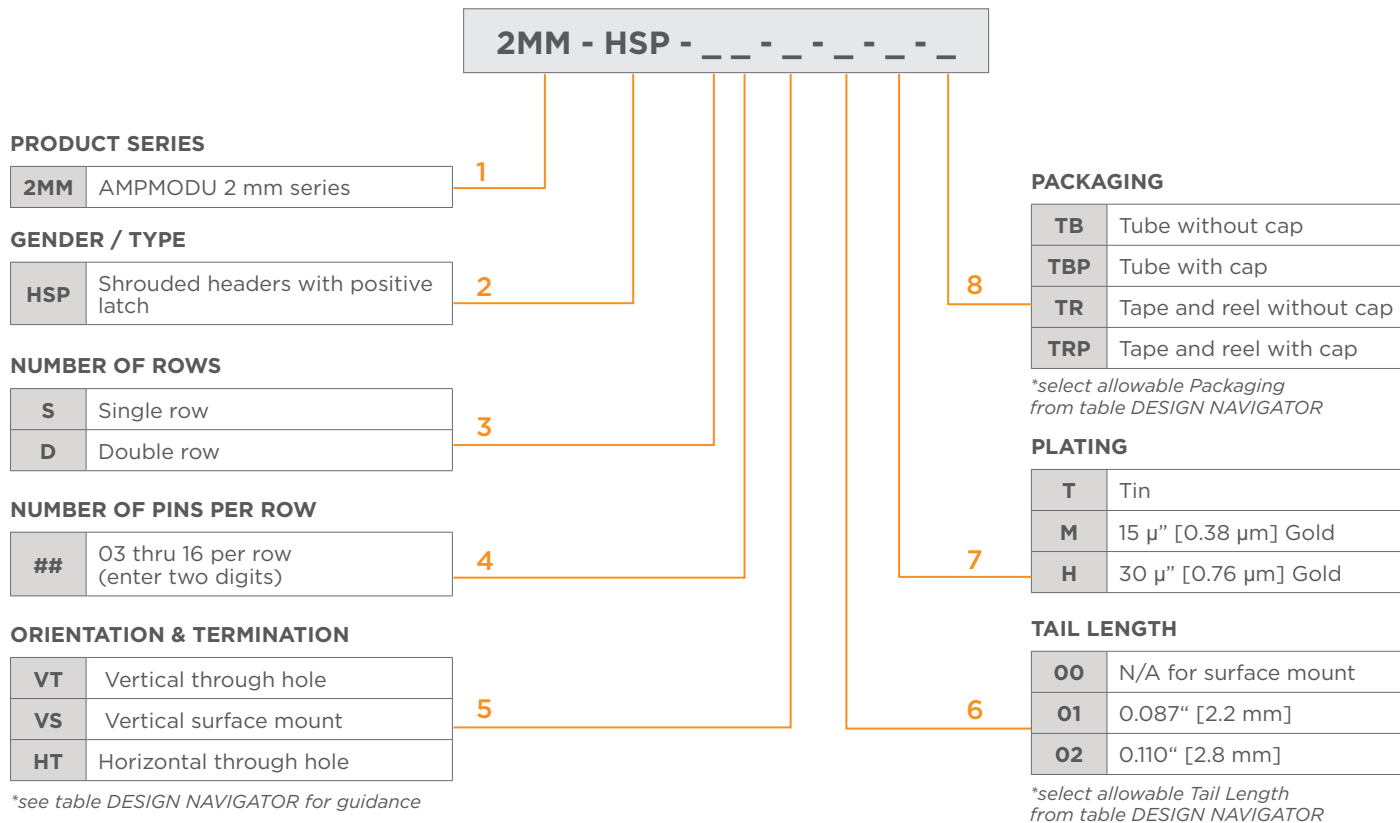
| Shrouded Headers w/ Detent Latches                                                                                                                                                                                                                          | B-t-B Orientation                           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

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

# 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

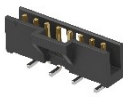
### DESIGN NAVIGATOR

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

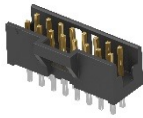
#### SINGLE ROW

| Product Type                                                                                                              | Drawing Number | Solder Lead Length | Base Number / Smart Part Number |                  |                         |                         | Packaging    | Available Positions |
|---------------------------------------------------------------------------------------------------------------------------|----------------|--------------------|---------------------------------|------------------|-------------------------|-------------------------|--------------|---------------------|
|                                                                                                                           |                |                    | Tin                             | 4μ" [0.1μm] Gold | 15μ" [0.38μm] Gold      | 30μ" [0.76μm] Gold      |              |                     |
| <b>Vertical Through Hole</b><br><br>     | 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 |              |                     |
| <b>Horizontal Through Hole</b><br><br> | 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  |              |                     |
| <b>Vertical Surface Mount</b><br><br>  | 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

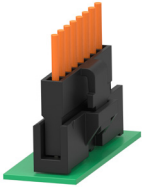
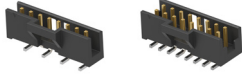
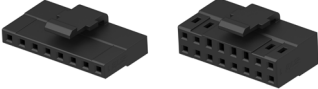
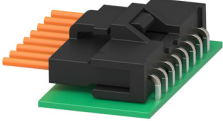
### SHROUDED HEADERS - WITH POSITIVE LATCH

#### 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      |              |                     |
| <b>Vertical Through Hole</b><br><br>     | 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  | 6-32                |
|                                                                                                                           |                |                    | 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   | 6-32                |
|                                                                                                                           |                |                    | 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  | 6-32                |
|                                                                                                                           |                |                    | 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   | 6-32                |
|                                                                                                                           |                |                    | 2MM-HSP-DXX-VT-02-T-TRP         | -                | 2MM-HSP-DXX-VT-02-M-TRP | 2MM-HSP-DXX-VT-02-H-TRP |              |                     |
| <b>Horizontal Through Hole</b><br><br> | 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  | 6-32                |
|                                                                                                                           |                |                    | 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 | 6-32                |
|                                                                                                                           |                |                    | 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  | 6-32                |
|                                                                                                                           |                |                    | 2MM-HSP-DXX-HT-02-T-TR          | -                | 2MM-HSP-DXX-HT-02-M-TR  | 2MM-HSP-DXX-HT-02-H-TR  |              |                     |
| <b>Vertical Surface Mount</b><br><br>  | 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  | 6-32                |
|                                                                                                                           |                |                    | 2MM-HSP-DXX-VS-00-T-TBP         | -                | 2MM-HSP-DXX-VS-00-M-TBP | 2MM-HSP-DXX-VS-00-H-TBP |              |                     |

SHROUDED HEADERS - WITH POSITIVE LATCH

MATEABLE PARTS

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

# AMPMODU 2 MM INTERCONNECTION SYSTEM

## BOARD RECEPTACLES

### SMART PART NUMBER DEFINITION

#### PRODUCT SERIES

|            |                     |
|------------|---------------------|
| <b>2MM</b> | AMPMODU 2 mm series |
|------------|---------------------|

#### GENDER / TYPE

|          |            |
|----------|------------|
| <b>R</b> | Receptacle |
|----------|------------|

#### NUMBER OF ROWS

|          |            |
|----------|------------|
| <b>S</b> | Single row |
| <b>D</b> | Double row |

#### NUMBER OF POSITIONS PER ROW

|           |                                          |
|-----------|------------------------------------------|
| <b>##</b> | 02 thru 25 per row<br>(enter two digits) |
|-----------|------------------------------------------|

#### ORIENTATION & TERMINATION

|            |                                 |
|------------|---------------------------------|
| <b>VT</b>  | Vertical through hole           |
| <b>VTR</b> | Vertical through hole outrigger |
| <b>VS</b>  | Vertical surface mount          |
| <b>HT</b>  | Horizontal through hole         |
| <b>HS</b>  | 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**

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

#### PACKAGING

|            |                           |
|------------|---------------------------|
| <b>TB</b>  | Tube without cap          |
| <b>TBP</b> | Tube with cap             |
| <b>TR</b>  | Tape and reel without cap |
| <b>TRP</b> | Tape and reel with cap    |

\*select allowable Packaging from table  
DESIGN NAVIGATOR

#### PLATING

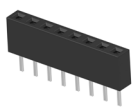
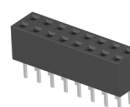
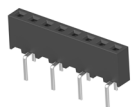
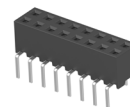
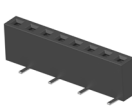
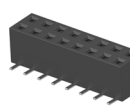
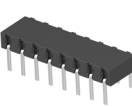
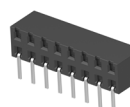
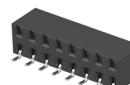
|          |                                |
|----------|--------------------------------|
| <b>T</b> | Tin                            |
| <b>F</b> | 4μ" [0.1 μm] Gold (Gold flash) |
| <b>M</b> | 15μ" [0.38 μm] Gold            |
| <b>H</b> | 30μ" [0.76 μm] Gold            |

#### TAIL LENGTH

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

\*select allowable Tail Length from table  
DESIGN NAVIGATOR

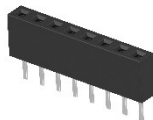
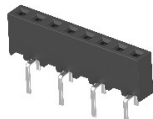
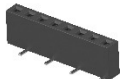
## DESIGN NAVIGATOR

| Orientation & Termination |                                                                                                                                                                         | Tail Length |                 | Packaging |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------|-----------|
| VT                        |   | 01          | 0.079" [2.0 mm] | TRP       |
|                           |                                                                                                                                                                         | 02          | 0.106" [2.7 mm] | TBP       |
|                           |                                                                                                                                                                         |             |                 | TRP       |
|                           |                                                                                                                                                                         |             |                 | TBP       |
|                           |                                                                                                                                                                         |             |                 | TB        |
| 03                        | 0.126" [3.2 mm]                                                                                                                                                         | TB          |                 |           |
| VTR                       |   | 01          | 0.091" [2.3 mm] | TRP       |
|                           |                                                                                                                                                                         | 02          | 0.110" [2.8 mm] | TBP       |
|                           |                                                                                                                                                                         |             |                 | TRP       |
|                           |                                                                                                                                                                         |             |                 | TBP       |
|                           |                                                                                                                                                                         |             |                 | TB        |
| 03                        | 0.134" [3.4 mm]                                                                                                                                                         | TB          |                 |           |
| VS                        |   | 00          | -               | TRP       |
|                           |                                                                                                                                                                         |             |                 | TBP       |
| HT                        |   | 01          | 0.083" [2.1 mm] | TR        |
|                           |                                                                                                                                                                         | 02          | 0.110" [2.8 mm] | TB        |
|                           |                                                                                                                                                                         |             |                 | TR        |
|                           |                                                                                                                                                                         |             |                 | TB        |
| 03                        | 0.134" [3.4 mm]                                                                                                                                                         | TB          |                 |           |
| HS                        |   | 00          | -               | TB        |
|                           |                                                                                                                                                                         |             |                 | TR        |

## AMPMODU 2 MM INTERCONNECTION SYSTEM

### BOARD RECEPTACLES

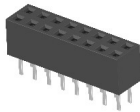
#### SINGLE ROW

| 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           |    | 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  | Tube w/ cap        |            |                     |
| 2314867                         |                                                                                     |                        | 2314868                         | 2314869                | 2314870                |                    |            |                     |
| 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  |                    |            |                     |
| 0.106" [2.7mm]                  |                                                                                     | 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  | Tube w/ cap        |            |                     |
|                                 |                                                                                     | 2314879                | 2314880                         | 2314881                | 2314882                |                    |            |                     |
|                                 |                                                                                     | 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  | Tube w/o cap       |            |                     |
|                                 |                                                                                     | 2314875                | 2314876                         | 2314877                | 2314878                |                    |            |                     |
|                                 |                                                                                     | 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   |                    |            |                     |
| 0.126" [3.2mm]                  |                                                                                     | 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 |  | 0.091" [2.3mm]         | 2307832                         | 2307835                | 2307838                | 2307841            | T&R w/ cap | 2-25                |
| 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 | Tube w/ cap        |            |                     |
| 2314899                         |                                                                                     |                        | 2314900                         | 2314901                | 2314902                |                    |            |                     |
| 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 |                    |            |                     |
| 0.110" [2.8mm]                  |                                                                                     | 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 | Tube w/ cap        |            |                     |
|                                 |                                                                                     | 2314911                | 2314912                         | 2338990                | 2314914                |                    |            |                     |
|                                 |                                                                                     | 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 | Tube w/o cap       |            |                     |
|                                 |                                                                                     | 2314907                | 2314908                         | 2314909                | 2314910                |                    |            |                     |
|                                 |                                                                                     | 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  |                    |            |                     |
| 0.134" [3.4mm]                  |                                                                                     | 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                         | 2307813                | 2307814                | 2307815            | T&R w/ cap | 2-25                |
| 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  | Tube w/ cap        |            |                     |
| 2314847                         |                                                                                     |                        | 2314848                         | 2314849                | 2314850                |                    |            |                     |
| 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  |                    |            |                     |

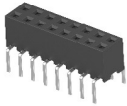
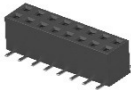
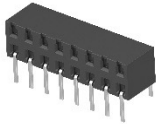
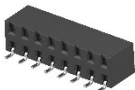
## AMPMODU 2 MM INTERCONNECTION SYSTEM

| 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  |  | 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 | Tube w/ cap        |             |                     |
| 2314927                  |                                                                                   |                      | 2314928                         | 2314929              | 2314930              |                    |             |                     |
| 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              |                    |             |                     |
|                          |                                                                                   | 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 |                    |             |                     |
| 0.134" [3.4mm]           |                                                                                   | 2307702              | 2307705                         | 2307708              | 2307711              | Tube w/ cap        |             |                     |
|                          |                                                                                   | 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                         | 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 | Tube w/ cap        |             |                     |
| 2314943                  |                                                                                   |                      | 2314944                         | 2314945              | 2314946              |                    |             |                     |
| 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    |              |                     |
| <div>Vertical Through Hole</div> <div></div> | 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 |              |                     |
|                                                                                                                                 |                |                      | 2314823                         | 2314824               | 2314825               | 2314826               | Tube w/ cap  |                     |
|                                                                                                                                 |                |                      | 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 |              |                     |
|                                                                                                                                 |                |                      | 2314819                         | 2314820               | 2314821               | 2314822               | Tube w/o cap |                     |
|                                                                                                                                 |                |                      | 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  |              |                     |
|                                                                                                                                 |                |                      | 0.126" [3.2mm]                  | 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  |              |                     |

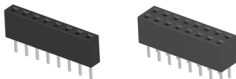
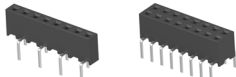
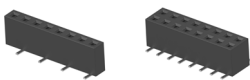
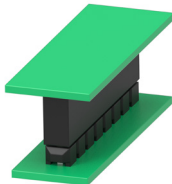
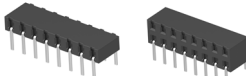
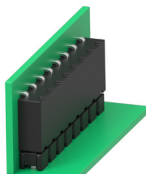
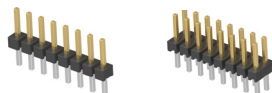
## AMPMODU 2 MM INTERCONNECTION SYSTEM

| 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     |              |                     |
| <b>Vertical Through Hole Outrigger</b><br><br> | 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 |              |                     |
|                                                                                                                                 |                |                    | 2314851                         | 2314852                | 2314853                | 2314143                | Tube w/ cap  |                     |
|                                                                                                                                 |                |                    | 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 |              |                     |
|                                                                                                                                 |                |                    | 2314863                         | 2314864                | 2314865                | 2314866                | Tube w/ cap  |                     |
|                                                                                                                                 |                |                    | 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  |              |                     |
| <b>Vertical Surface Mount</b><br><br>        | 2307816        | -                  | 2307816                         | 2307817                | 2307818                | 2307819                | T&R w/ cap   | 4-50                |
|                                                                                                                                 |                |                    | 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  |              |                     |
| <b>Horizontal Through Hole</b><br><br>       | 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   |              |                     |
|                                                                                                                                 |                |                    | 2314915                         | 2314916                | 2314917                | 2314918                | Tube w/o cap |                     |
|                                                                                                                                 |                |                    | 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   |              |                     |
|                                                                                                                                 |                |                    | 2307713                         | 2307716                | 2307719                | 2307722                | Tube w/o cap |                     |
|                                                                                                                                 |                |                    | 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   |              |                     |
|                                                                                                                                 |                | 0.134" [3.4mm]     | 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   |              |                     |
| <b>Horizontal Surface Mount</b><br><br>      | 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

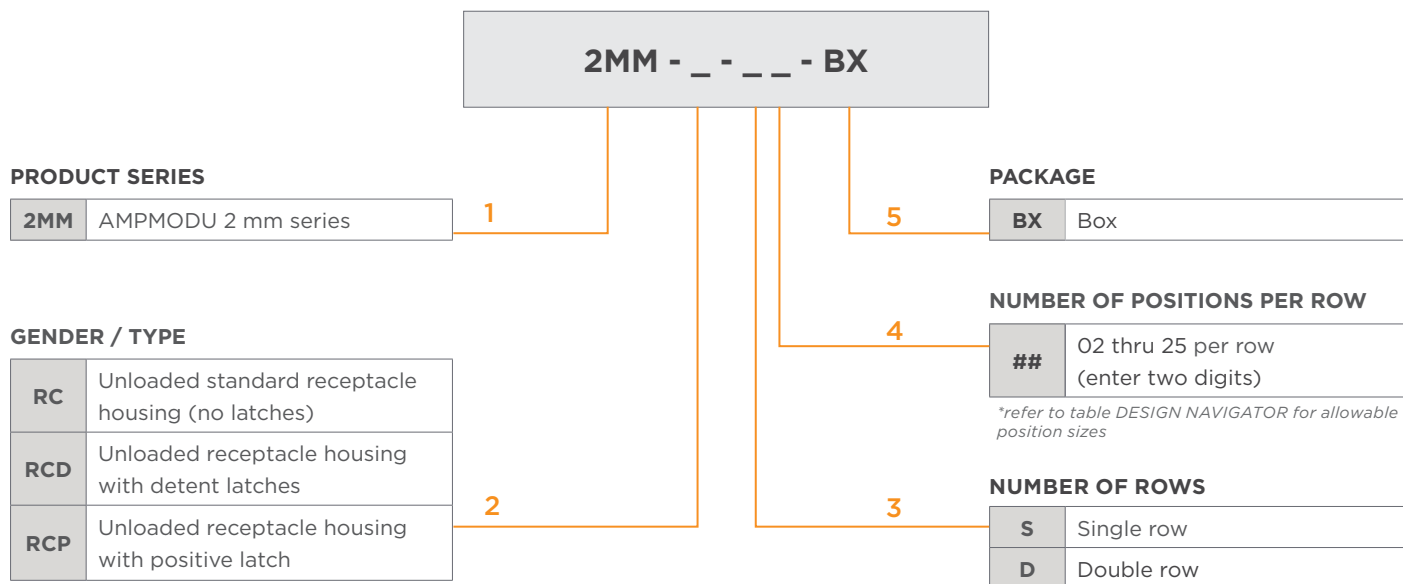
### MATEABLE PARTS

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

# 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

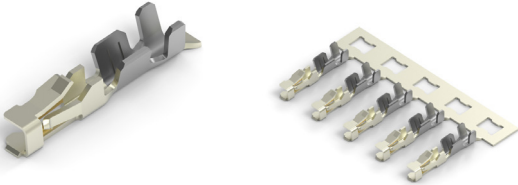
| Housing Style         | Number of Rows                                                                                 | Number of Positions per Row    | Packaging Method |
|-----------------------|------------------------------------------------------------------------------------------------|--------------------------------|------------------|
| 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 - \_ - \_ - \_

1

2

3

4

5

PRODUCT SERIES

2MM

AMPMODU 2 mm series

GENDER / TYPE

RT

Receptacle crimp contact

WIRE SIZE

S

AWG 30-28 [0.05 - 0.08 mm²]

M

AWG 28-24 [0.08 - 0.22 mm²]

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

INDUSTRIAL / AMPMODU 2 MM INTERCONNECTION SYSTEM

27

AMPMODU 2 MM INTERCONNECTION SYSTEM

CRIMP SNAP-IN RECEPTACLES

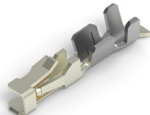
SINGLE ROW

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

DOUBLE ROW

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

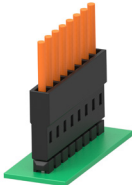
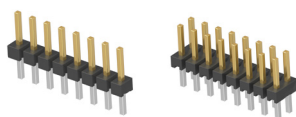
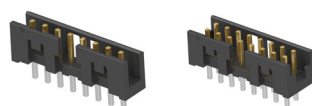
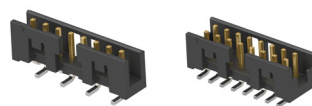
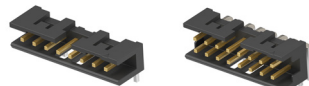
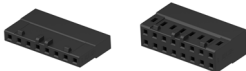
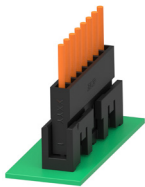
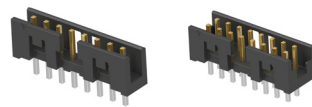
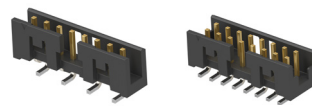
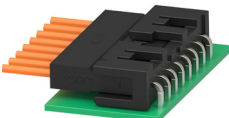
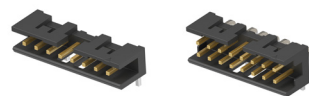
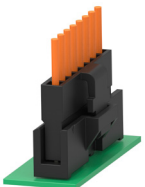
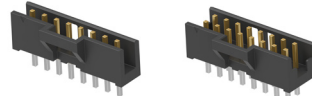
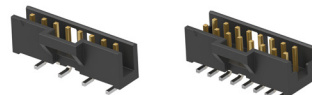
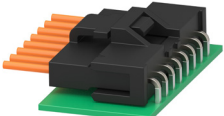
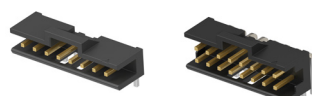
RECEPTACLE CONTACTS

| Wire Size                      | Product Image                                                                       | Drawing Number | Plating            | Packaging Method |               |
|--------------------------------|-------------------------------------------------------------------------------------|----------------|--------------------|------------------|---------------|
|                                |                                                                                     |                |                    | 30Kpc Reel       | Loose Piece   |
| AWG 28-24<br>[0.08 - 0.22 mm2] |  | 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 |
|                                |                                                                                     |                | 30μ" [0.76μm] Gold | 5-2316113-5      | 5-2316113-6   |
|                                |                                                                                     |                |                    | 2MM-RT-M-H-ST    | 2MM-RT-M-H-LP |
| AWG 30-28<br>[0.05 - 0.08 mm2] |                                                                                     | 2316114        | Tin                | 2-2316114-2      | 2-2316114-3   |
|                                |                                                                                     |                |                    | 2MM-RT-S-T-ST    | 2MM-RT-S-T-LP |
|                                |                                                                                     |                | 4μ" [0.1μm] Gold   | 3-2316114-3      | 3-2316114-4   |
|                                |                                                                                     |                |                    | 2MM-RT-S-F-ST    | 2MM-RT-S-F-LP |
|                                |                                                                                     |                | 15μ" [0.38μm] Gold | 4-2316114-4      | 4-2316114-5   |
|                                |                                                                                     |                |                    | 2MM-RT-S-M-ST    | 2MM-RT-S-M-LP |
|                                |                                                                                     |                | 30μ" [0.76μm] Gold | 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

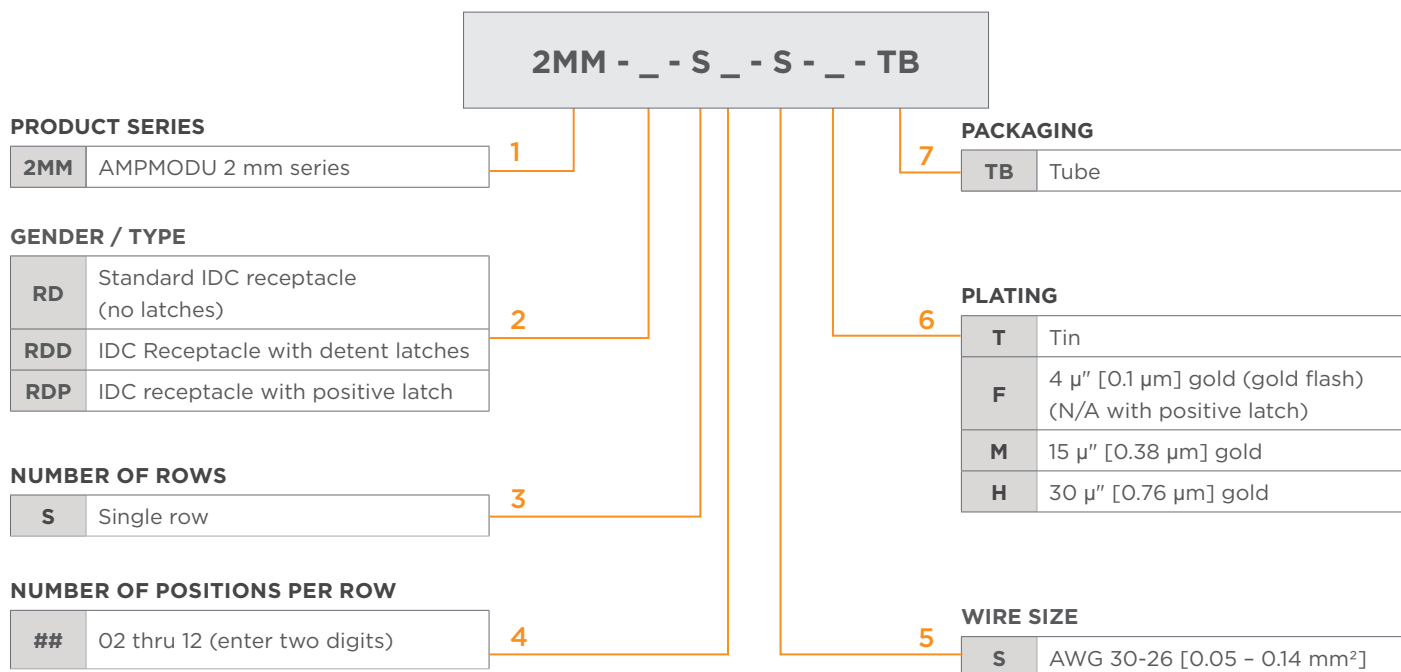
### MATEABLE PARTS

| 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 - __<br><br>    |    | 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 - HB - __ - HT                            |  | 2MM - HSD - __ - HT                                                                   |  |
| w/ Detent Latches                                                                                         |                                                                                     | Vertical Shrouded Headers w/ Detent Latches   |                                                                                    |                                                                                       | Page 11-12                                                                          |
| 2MM - RCD - __<br><br> |  | 2MM - HSD - __ - VT                           |                                                                                    |  |                                                                                     |
|                                                                                                           |                                                                                     | 2MM - HSD - __ - VS                           |                                                                                    |  |                                                                                     |
|                                                                                                           |  | Horizontal Shrouded Headers w/ Detent Latches |                                                                                    |                                                                                       | Page 11-12                                                                          |
|                                                                                                           |                                                                                     | 2MM - HSD - __ - HT                           |                                                                                    |  |                                                                                     |
| w/ Positive Latch                                                                                         |                                                                                     | Vertical Shrouded Headers w/ Positive Latch   |                                                                                    |                                                                                       | Page 13-14                                                                          |
| 2MM - RCP - __<br><br> |  | 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<br>[0.05 – 0.14 mm²] | 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   |  |                                | 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   |  |                                | 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

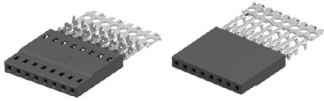
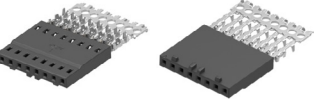
#### APPLICATION TOOLING

| Tooling                    | Images                                                                            | TE Part Number                                                                                                                                                   |
|----------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Terminating head*          |  | <a href="#"><u>2326300-1</u></a>                                                                                                                                 |
| Pistol grip manual handle* |  | <a href="#"><u>58074-1</u></a>                                                                                                                                   |
| Pneumatic handle*          |  | <a href="#"><u>58075-1</u></a>                                                                                                                                   |
| Extraction tool            |  | <a href="#"><u>9-1579028-8</u></a><br><i>Suitable for all receptacles - to disengage locking lance from front window.</i>                                        |
|                            |  | <a href="#"><u>843477-3</u></a><br><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

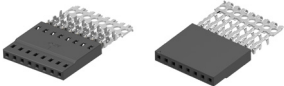
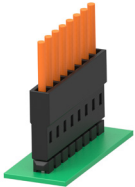
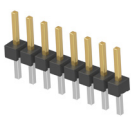
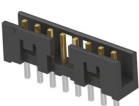
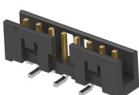
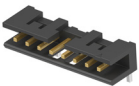
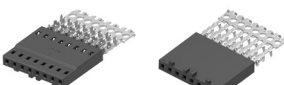
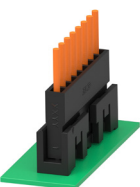
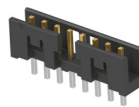
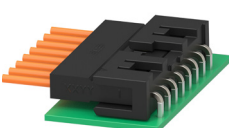
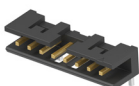
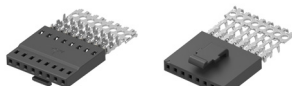
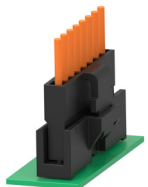
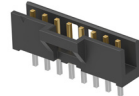
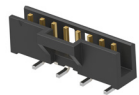
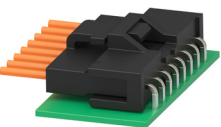
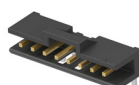
### INSULATION DISPLACEMENT CONTACT (IDC) RECEPTACLES

| Product Type          | Drawing Number                                                                               | Wire Size                                                                                      | Plating                        | Base Number                                                                                  | Available Positions                  |                                |                    |                                   |
|-----------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------|--------------------|-----------------------------------|
| Standard (no latches) | <br>2317222 | AWG 30-26<br>[0.05 – 0.14 mm2]                                                                 | 30μ” [0.76μm] Gold             | 2317206                                                                                      | 2, 3, 4, 5, 6<br>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            | <br>2317223 |                                      | AWG 30-26<br>[0.05 – 0.14 mm2] | 30μ” [0.76μm] Gold | 2317209                           |
| 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                                                                          | <br>2317224 | AWG 30-26<br>[0.05 – 0.14 mm2] |                                                                                              | 30μ” [0.76μm] Gold                   |                                | 2317212            | 3, 4, 5, 6<br>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                                                                         | Vertical Shrouded Headers w/ Detent Latches                                           | Page 11-12                                                                          |
| 2MM - RD - __<br><br>    |    | 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 - HB - __ - HT                            |  | 2MM - HSD - __ - HT                                                                   |  |
| w/ Detent Latches                                                                                         |                                                                                     | Vertical Shrouded Headers w/ Detent Latches   |                                                                                   |                                                                                       | Page 11-12                                                                          |
| 2MM - RDD - __<br><br> |   | 2MM - HSD - __ - VT                           |                                                                                   |  |                                                                                     |
|                                                                                                           |                                                                                     | 2MM - HSD - __ - VS                           |                                                                                   |  |                                                                                     |
|                                                                                                           |  | Horizontal Shrouded Headers w/ Detent Latches |                                                                                   |                                                                                       | Page 11-12                                                                          |
|                                                                                                           |                                                                                     | 2MM - HSD - __ - HT                           |                                                                                   |  |                                                                                     |
| w/ Positive Latch                                                                                         |                                                                                     | Vertical Shrouded Headers w/ Positive Latch   |                                                                                   |                                                                                       | Page 13-14                                                                          |
| 2MM - RDP - __<br><br> |  | 2MM - HSP - __ - VT                           |                                                                                   |  |                                                                                     |
|                                                                                                           |                                                                                     | 2MM - HSP - __ - VS                           |                                                                                   |  |                                                                                     |
|                                                                                                           |  | Horizontal Shrouded Headers w/ Positive Latch |                                                                                   |                                                                                       | Page 13-14                                                                          |
|                                                                                                           |                                                                                     | 2MM - HSP - __ - HT                           |                                                                                   |  |                                                                                     |

# AMPMODU 2 MM INTERCONNECTION SYSTEM

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