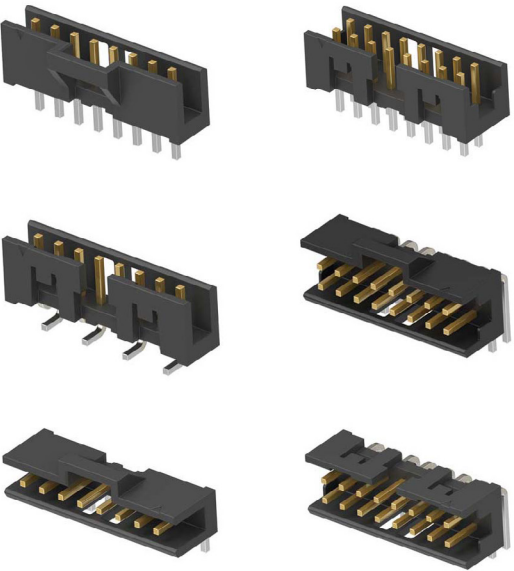




## AMPMODU 2 mm SHROUDED HEADERS

TE Connectivity's (TE) AMPMODU 2 mm Shrouded Headers can be used in a wide range of applications requiring a reliable signal transfer. Our shrouded headers come in a single and double row configurations, and are available in vertical and right-angle orientations. Options include both through-hole and surface mount terminations. These 2 mm headers occupy 38 percent less space on a PCB than the standard 2.54 mm [0.100"] centerline, allowing customers to build more functionality onto their boards. Housings are molded in a high-temp thermoplastic that is resistant to reflow soldering temperatures. For applications requiring latching, customers can select headers with detent latches or a positive latch. Our headers are available in variants suitable for automated surface mounting, through-hole-reflow and traditional through-hole mounting onto boards, enabling customers to choose from a wide range of options for PCB assembly.

### KEY BENEFITS

- 38% space saving on a PCB board compared to 2.54 mm [0.100"] centerline, allowing for extended functionality
- Polarization feature supports correct mating
- Efficient and cost-effective application on boards with automated surface mounting and through-hole-reflow manufacturing
- Detent and positive latches supports secure mating in vibration environments
- Intermateable solution with other major brand receptacles

## AMPMODU 2 mm SHROUDED HEADERS

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### APPLICATIONS

- PLC / IO devices
- Servo drives
- Material handling equipment
- Building and home automation
- Industrial controls
- Robotics
- Instrumentation and test equipment

### ELECTRICAL

- **Current Rating:** 2A (max.)
- **Dielectric Withstanding Voltage:** 650 VAC
- **Operating Voltage:** 125VDC or 125VAC RMS

### MECHANICAL

- **Operating Temperature:** -40°C to 105°C (tin plated)  
-40°C to 125°C (gold plated)
- **Solderability:** Reflow capable up to 260°C
- **Vibration:** No electrical discontinuity greater than 1 microsecond

### MATERIALS

- **Plating:** 30 μ" [0.76 μm] gold  
15 μ" [0.38 μm] gold  
4 μ" [0.1 μm] gold flash  
Tin
- **Contact Material:** Phosphor bronze
- **Housing Material:** High-temperature plastic (LCP), black
- **Environmental:** UL94 V0, low halogen  
Operating environment class III

### SPECIFICATIONS

- **Product Specification:** [108-64040](#)
- **Application Specification:** [114-64040](#)
- RoHS & REACH compliant
- UL approval pending
- VDE Approval



## AMPMODU 2 mm SHROUDED HEADERS

### 2) HEADERS WITH POSITIVE LATCH

**PRODUCT SERIES**

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

**GENDER / TYPE**

|            |                                      |
|------------|--------------------------------------|
| <b>HSP</b> | Shrouded headers with positive latch |
|------------|--------------------------------------|

**NUMBER OF ROWS**

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

**NUMBER OF PINS PER ROW**

|           |                                       |
|-----------|---------------------------------------|
| <b>##</b> | 03 thru 16 per row (enter two digits) |
|-----------|---------------------------------------|

**ORIENTATION & TERMINATION**

|           |                         |
|-----------|-------------------------|
| <b>VT</b> | Vertical through hole   |
| <b>VS</b> | Vertical surface mount  |
| <b>HT</b> | Horizontal through hole |

**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>M</b> | 15 μ" [0.38 μm] Gold |
| <b>H</b> | 30 μ" [0.76 μm] Gold |

**TAIL LENGTH**

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

*\*select allowable Tail Length from table DESIGN NAVIGATOR*

2MM - HSP - \_ \_ - \_ - \_ - \_ - \_

#### 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        |
|                           |  |             |                 | TBP       |
|                           |  |             |                 | TRP       |
| VS                        |  | 00          | -               | TRP       |
|                           |  |             |                 | TBP       |
| HT                        |  | 01          | 0.087" [2.2 mm] | TB        |
|                           |  |             |                 | TR        |
|                           |  | 02          | 0.110" [2.8 mm] | TB        |
|                           |  |             |                 | TR        |

## AMPMODU 2 mm SHROUDED HEADERS

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08/23 VL

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