

## 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

## SMART PART NUMBER DEFINITION

### 1) HEADERS WITH DETENT LATCHES

2MM - HSD - \_ \_ \_ - \_ \_ - \_ \_ - \_ \_

#### PRODUCT SERIES

<b>2MM</b>	AMPMODU 2 mm series	1
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#### GENDER / TYPE

<b>HSD</b>	Shrouded headers with detent latches	2
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#### NUMBER OF ROWS

<b>S</b>	Single row	3
<b>D</b>	Double row	

#### NUMBER OF PINS PER ROW

<b>##</b>	02 thru 25 (enter two digits) • Single row: 02 thru 16 • Double row: 02 thru 16, 20, 22, 25 per row	4
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#### ORIENTATION & TERMINATION

<b>VT</b>	Vertical through hole	5
<b>VS</b>	Vertical surface mount	
<b>HT</b>	Horizontal through hole	

\*see table DESIGN NAVIGATOR for guidance

#### SMART PN EXAMPLES

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

#### PACKAGING

<b>TB</b>	Tube without cap	8
<b>TBP</b>	Tube with cap (N/A for 2 positions per row)	
<b>TRP</b>	Tape and reel with cap (N/A for 2 positions per row for horizontal through hole)	

\*select allowable Packaging from table DESIGN NAVIGATOR

#### PLATING

<b>T</b>	Tin	7
<b>F</b>	4 µ" [0.1 µm] Gold (gold flash)	
<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	6
<b>01</b>	0.087" [2.2 mm]	
<b>02</b>	0.110" [2.8 mm]	

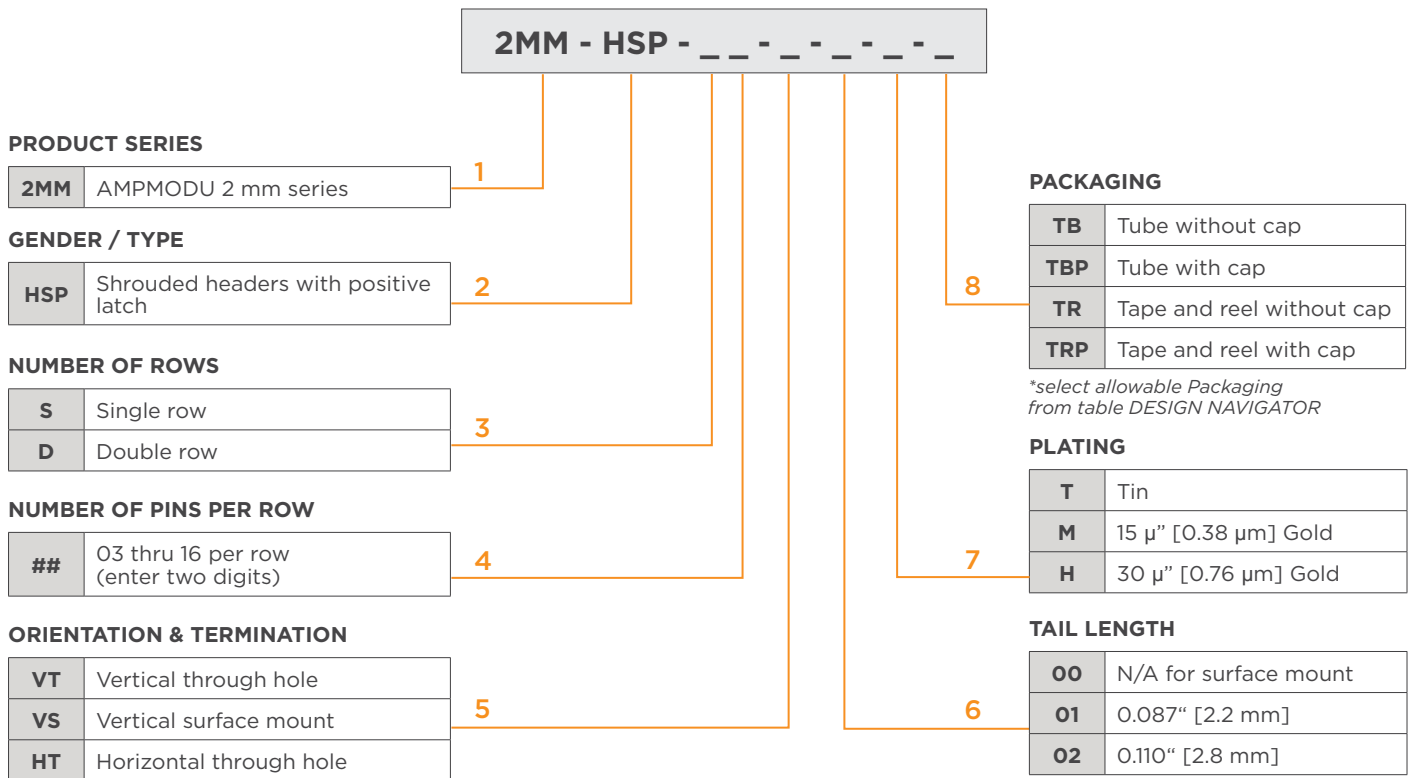
\*select allowable Tail Length from table DESIGN NAVIGATOR

## DESIGN NAVIGATOR

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

# AMPMODU 2 mm SHROUDED HEADERS

## 2) HEADERS WITH POSITIVE LATCH



\*see table DESIGN NAVIGATOR for guidance

### SMART PN EXAMPLES

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

## DESIGN NAVIGATOR

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

# AMPMODU 2 mm SHROUDED HEADERS

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08/23 VL

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