

## 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

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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

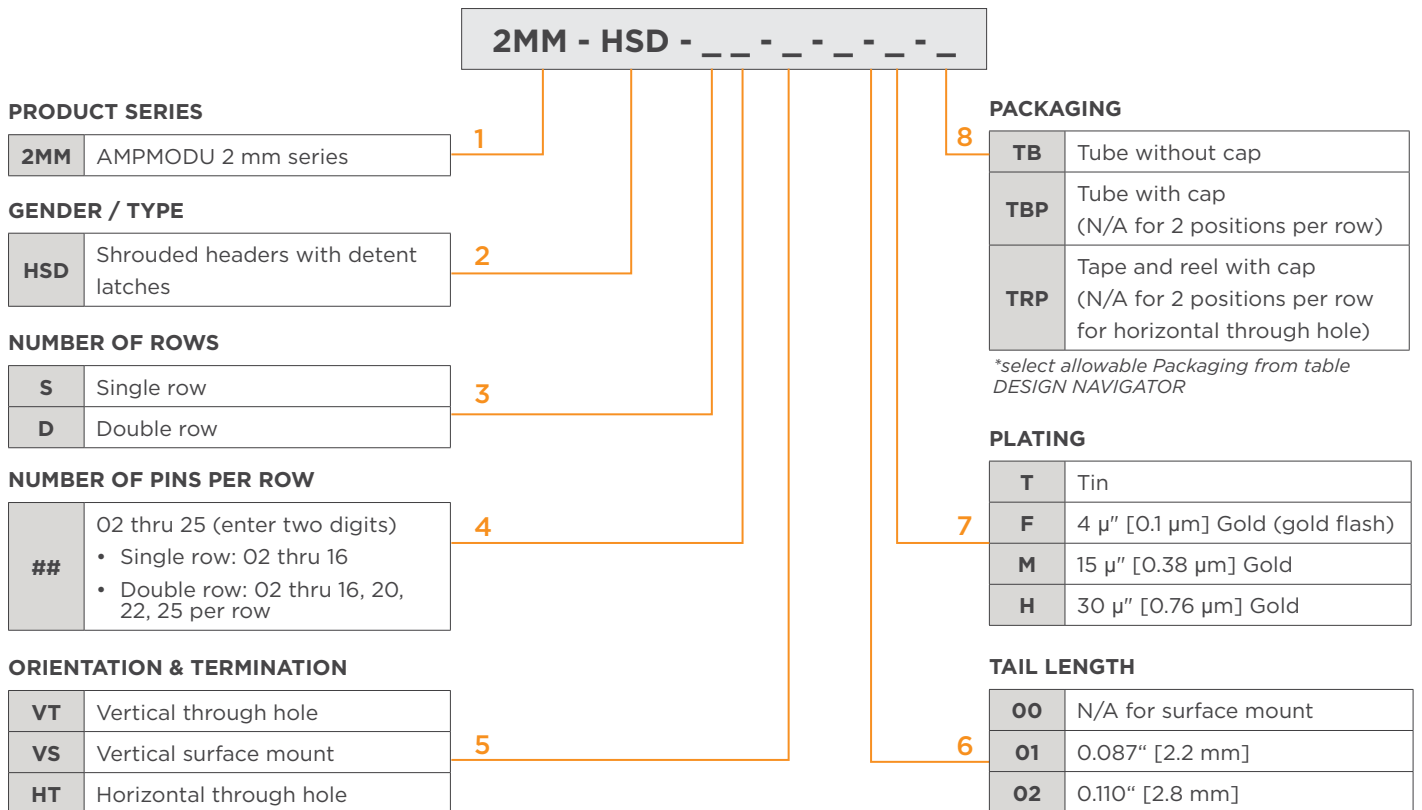
### SPECIFICATIONS

- **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



\*see table DESIGN NAVIGATOR for guidance

#### SMART PN EXAMPLES

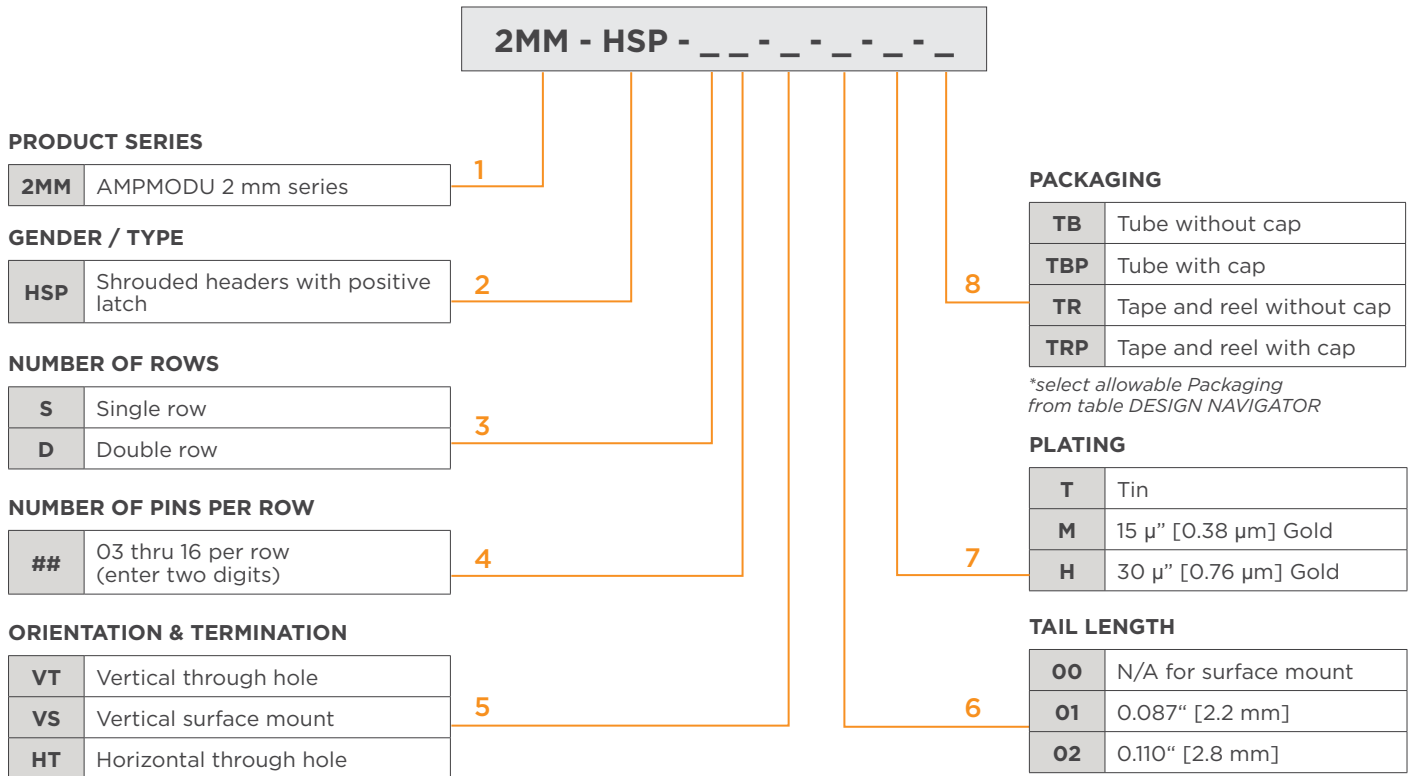
- AMPMODU 2 mm, shrouded header with detent latches, single row, 8 positions (1 x 8), horizontal through hole, 2.8 mm tail length, 15μ" [0.38μm] gold, tube without cap: **2MM-HSD-S08-HT-02-M-TB**

## DESIGN NAVIGATOR

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