

# 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**

#### **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

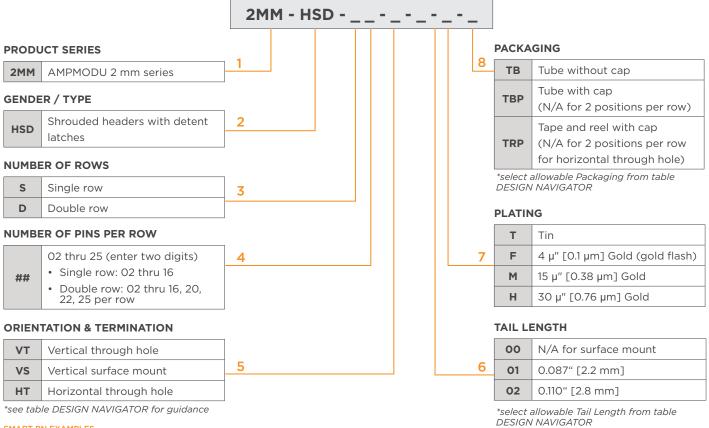
- Plating: 30 µ" [0.76 µm] gold
  - 15 µ" [0.38 µm] gold
  - 4 μ" [0.1 μm] gold flash
  - Tin
- Contact Material: Phosphor bronze
- Housing Material: High-temperature plastic (LCP), black
- Environmental: UL94 VO, low halogen
  Operating environment class III

#### **SPECIFICATIONS**

- Product Specification: <u>108-64040</u>
- Application Specification: <u>114-64040</u>
- RoHS & REACH compliant
- UL approval pending
- VDE Approval

#### SMART PART NUMBER DEFINITION

#### 1) HEADERS WITH DETENT LATCHES



SMART PN EXAMPLES

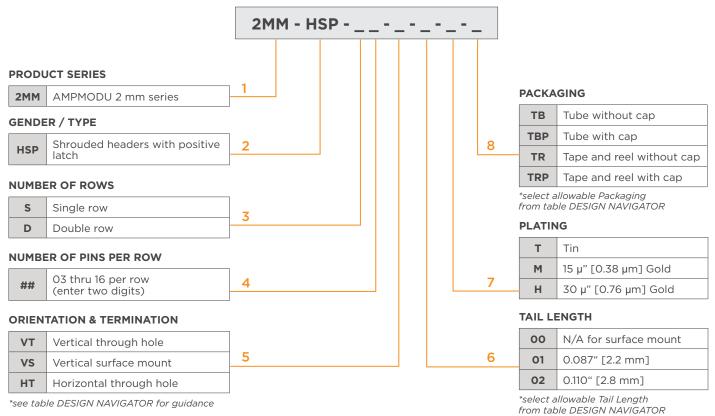
• AMPMODU 2 mm, shrouded header with detent latches, single row, 8 positions (1 x 8), horizontal through hole, 2.8 mm tail length, 15µ" [0.38µm] gold, tube without cap: 2MM-HSD-S08-HT-02-M-TB

#### **DESIGN NAVIGATOR**

Orientation & Termination				Tail Length	
VT			01	0.087" [2.2 mm]	ТВ
					TBP
					TRP
			02	0.110" [2.8 mm]	ТВ
					TBP
					TRP
VS		ALL REFEL	00	-	TRP
					TBP
HT	Collector a	allaste	01	0.087" [2.2 mm]	ТВ
					TBP
					TRP
			02	0.110" [2.8 mm]	ТВ
					TBP
					TRP

### **AMPMODU 2 mm SHROUDED HEADERS**

#### **2) HEADERS WITH POSITIVE LATCH**



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	
VT		TTTTTTT	01	0.087" [2.2 mm]	ТВ
					TBP
					TRP
			02	0.110" [2.8 mm]	ТВ
					TBP
					TRP
VS		ALL REAL	00		TRP
					TBP
HT	a selfus a	ellenet .	01	0.087" [2.2 mm]	ТВ
					TR
			02	0.110" [2.8 mm]	ТВ
					TR

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TE Connectivity: 2MM-HSD-D20-VT-02-M-TB