

## AMPMODU 2 mm BREAKAWAY HEADERS

TE Connectivity (TE) AMPMODU 2 mm connector family offers a wide variety of reliable connectors for Board-to-Board and Wire-to-Board solutions. 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. Our breakaway headers are intermateable with other major brand receptacles in the market. They are available in variants suitable for automated surface mounting, through-hole-reflow and traditional through-hole mounting onto boards, providing customers with a spectrum of options for PCB assembly. The product offering includes single and double row options, vertical and right angle orientations, and comes in tube and tape & reel packaging to suit different types of product handling systems.

### KEY BENEFITS

- 38% space saving on a PCB board compared to 2.54 mm [0.100"] centerline, allowing for extended functionality
- Efficient and cost effective application on boards with automated surface mounting and through-hole-reflow manufacturing
- 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:** 650VAC
- **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

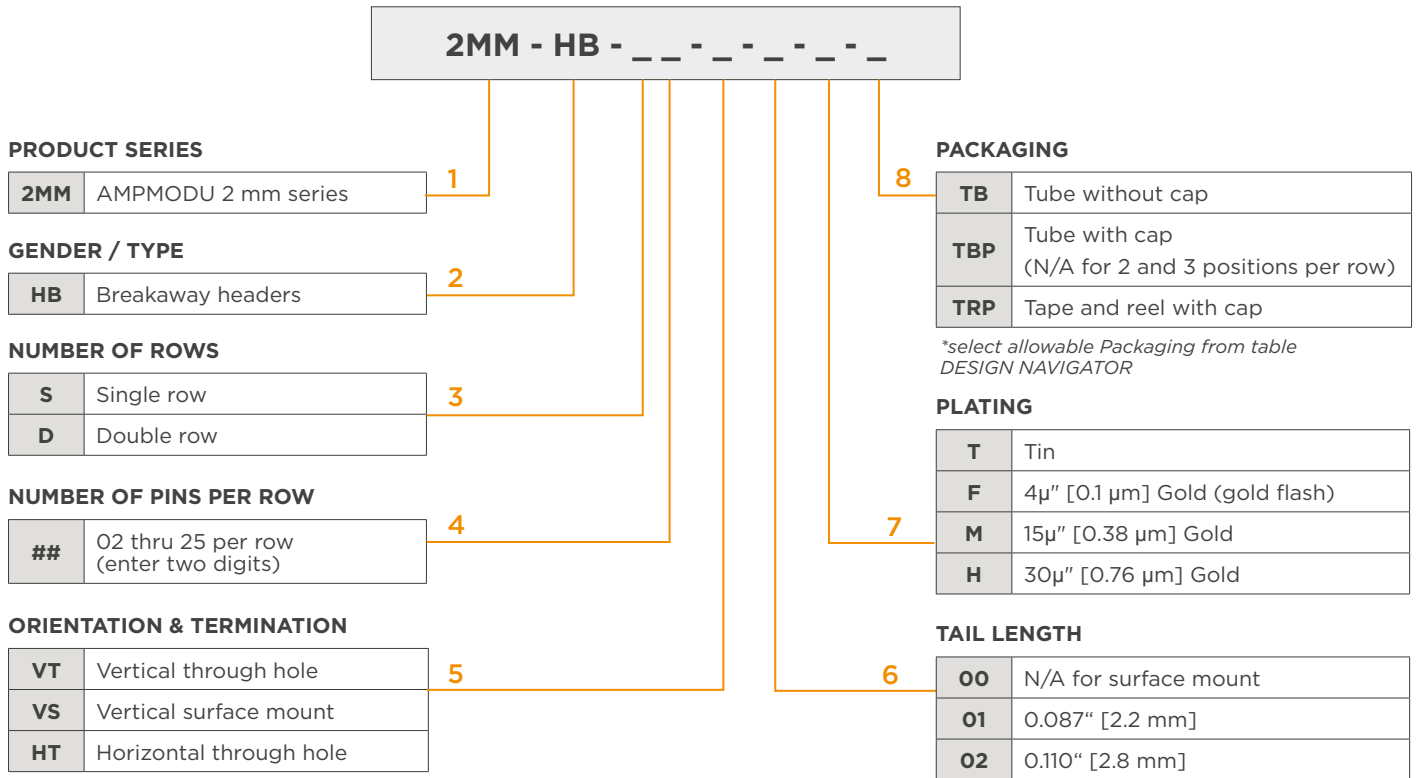
- **Plating:** 30 μ" [0.76 μm] gold  
15 μ" [0.38 μm] gold  
4 μ" [0.1 μm] gold flash  
Tin
- **Contact Material:** Phosphor bronze
- **Housing Material:** High-temperature plastic (LCP), black
- **Environmental:** UL94 V0, low halogen  
Operating environment class III

### SPECIFICATIONS

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

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## SMART PART NUMBER DEFINITION



\*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
02	0.110" [2.8 mm]	TRP						
		TB						
		TBP						
				TRP				

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