

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 μ m] gold
15 μ " [0.38 μ m] gold
4 μ " [0.1 μ m] gold flash
Tin
- **Contact Material:** Phosphor bronze
- **Housing Material:** High-temperature plastic (LCP), black
- **Environmental:** UL94 VO, low halogen

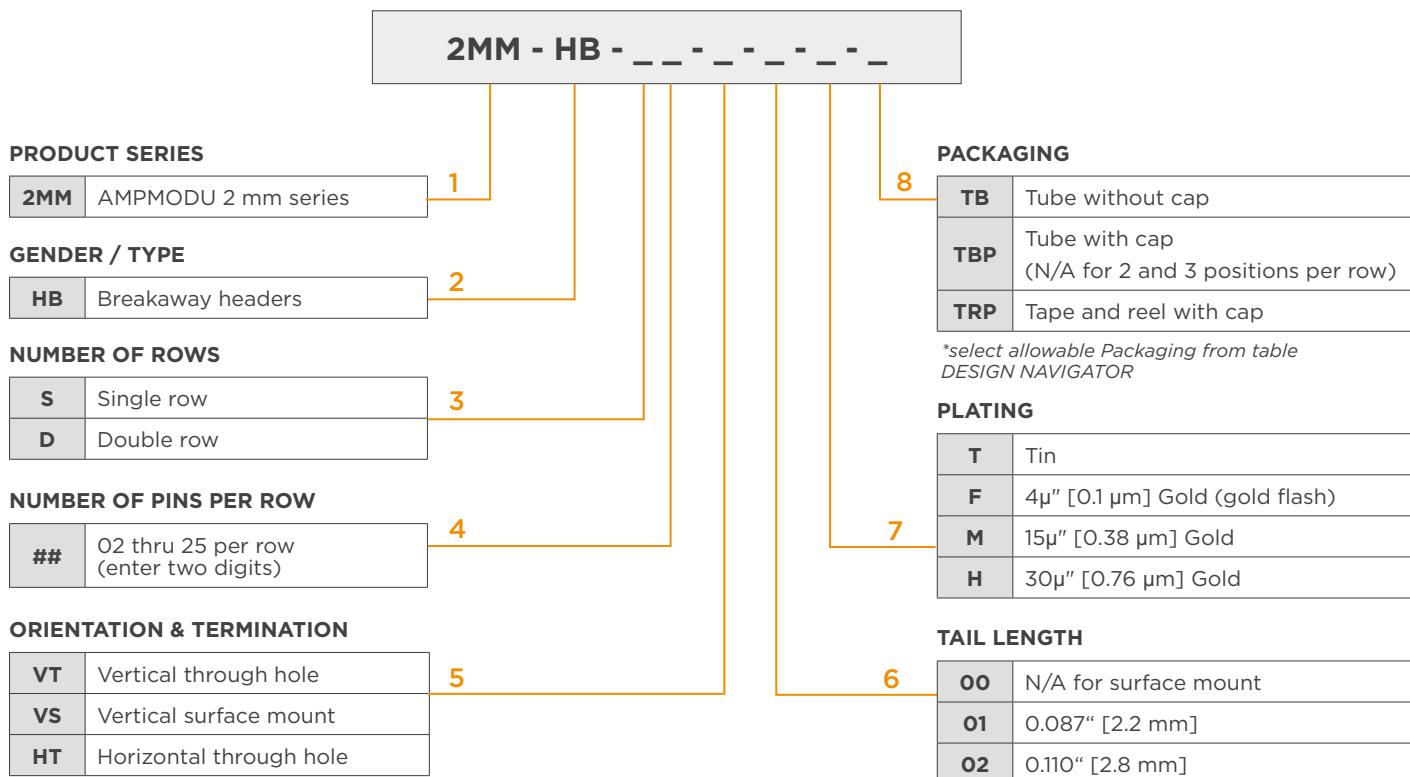
Operating environment class III

SPECIFICATIONS

- **Product Specification:** [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

*select allowable Tail Length from table DESIGN NAVIGATOR

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

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