



AMPMODU 2 mm SHROUDED HEADER

TE Connectivity's (TE) AMPMODU 2 mm SHROUDED HEADERS add to our existing portfolio of 2 mm breakaway headers and Board-to-Board receptacles and can be used in a wide range of applications requiring a reliable signal transfer. Our shrouded headers come in a double row configuration 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. The 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. Our headers are available in variants suitable for automated surface mounting, through-hole-reflow (pin-in-paste) and traditional through-hole mounting onto boards, enabling customers to choose from a wide range of options for PCB assembly.

BENEFITS

- Intermateable solution with major brand receptacles
- Polarization feature provides correct mating
- Detent latches help prevent unmating in vibration environments
- 38% space saving on a PCB board compared to 2.54 mm [0.100"] centerline, allowing for extended functionality
- Efficient and cost effective with automated surface mounting and through-hole-reflow manufacturing

KEY FEATURES

- **Centerline:** 2.00 mm [0.079"]
- **Dimension:** 0.50 mm [0.020"] square pins
- **Size:** double row, 25 positions per row (max.)
- **PCB Thickness:** 1.6 mm to 2.4 mm
- **Environmental:** Operating Environment Class III

AMPMODU 2 mm Shrouded Header

APPLICATIONS

- PLC
- Servo Drives
- Industrial Control
- Material Handling
- Instrumentation and Test Equipment
- Building and Factory Automation

STANDARDS & SPECIFICATIONS

- RoHS & REACH Compliant
- UL Recognized
- Product Specification: [108-64040](#)
- Application Specification: [114-64040](#)

ELECTRICAL

- **Current Rating:** 2 A (max.)
- **Dielectric Withstanding Voltage:** 650 VAC
- **Operating Voltage:** 125 VDC

MECHANICAL

- **Operating Temperature:**
-40 to 105°C for Tin Plated Headers
-40 to 125°C for Gold Plated Headers
- **Reflow Solder:** Capable to 260°C
- **Vibration:** No electrical discontinuity greater than 1 microsecond

MATERIALS

- **Plating:**
- 30µ" [0.76 µm] Gold
- 15µ" [0.38 µm] Gold
- 4µ" [0.1 µm] Gold Flash
- Tin
- **Housing Material:** High Temperature Plastic, UL 94VO, Black
- **Contact Material:** Brass

PRODUCT OFFERINGS

Standard Headers with Polarization Feature

Type	Orientation	Termination	# of Positions	Packaging	Tin	4µ" [0.1 µm] Gold Flash	15µ" [0.38 µm] Gold	30µ" [0.76 µm] Gold
	Vertical	TH/THR	6 - 50	Tube (without Cap)	2842281	2842282	2842283	2842284
			10 - 50	Tube (with Cap)	2842285	2842286	2842287	2842288
			10 - 50	Tape & Reel (with Cap)	2842289	2842290	2842291	2842292
	Right Angle	TH/THR	6 - 50	Tube (without Cap)	2842165	2842166	2842167	2842168
			6 - 50	Tape & Reel (without Cap)	2842269	2842270	2842271	2842272
	Vertical	SMT	6 - 50	Tube (without Cap)	2373375	2373376	2373377	2373378
			10 - 50	Tube (with Cap)	2842273	2842274	2842275	2842276
			10 - 50	Tape & Reel (with Cap)	2842277	2842278	2842279	2842280

For Part Number Definition Table, please refer to page 3

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Headers with Detent Latching

Type	Orientation	Termination	# of Positions	Packaging	Tin	4μ" [0.1 μm] Gold Flash	15μ" [0.38 μm] Gold	30μ" [0.76 μm] Gold
	Vertical	TH/THR	14 16 20 24 26 30 34 40 44 50	Tube (without Cap)	2842235	2842236	2842237	2842238
				Tube (with Cap)	2842301	2842302	2842303	2842304
				Tape & Reel (with Cap)	2842305	2842306	2842307	2842308
	Right Angle	TH/THR		Tube (without Cap)	2842247	2842248	2842249	2842250
	Vertical	SMT		Tube (with Cap)	2842243	2842244	2842245	2842246
				Tape & Reel (with Cap)	2842239	2842240	2842241	2842242

PART NUMBER DEFINITION

Position	Part Number	Position	Part Number
6 (3x2)	xxxxxxx-6	30 (15x2)	3-xxxxxxx-0
8 (4x2)	xxxxxxx-8	32 (16x2)	3-xxxxxxx-2
10 (5x2)	1-xxxxxxx-0	34 (17x2)	3-xxxxxxx-4
12 (6x2)	1-xxxxxxx-2	63 (18x2)	3-xxxxxxx-6
14 (7x2)	1-xxxxxxx-4	38 (19x2)	3-xxxxxxx-8
16 (8x2)	1-xxxxxxx-6	40 (20x2)	4-xxxxxxx-0
18 (9x2)	1-xxxxxxx-8	42 (21x2)	4-xxxxxxx-2
20 (10x2)	2-xxxxxxx-0	44 (22x2)	4-xxxxxxx-4
22 (11x2)	2-xxxxxxx-2	46 (23x2)	4-xxxxxxx-6
24 (12x2)	2-xxxxxxx-4	48 (24x2)	4-xxxxxxx-8
26 (13x2)	2-xxxxxxx-6	50 (25x2)	5-xxxxxxx-0
28 (14x2)	2-xxxxxxx-8		

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