

AMPMODU 2mm BREAKAWAY HEADER

TE Connectivity (TE) AMPMODU 2mm connector family includes a variety of reliable Board-to-Board and Wire-to-Board headers. The new breakaway headers when compared to, have a centerline of 2mm [0.079"], saving almost 38% space on the board than the standard 2.54mm [0.1"] centerline, and allowing customers to build more functionality onto their boards. The connectors are intermateable and can be paired with most receptacles from major brands in the market. The new headers are available for automated surface mounting, through-hole-reflow (THR/PIP) and traditional through-hole mounting onto boards, providing customers with a wide range of options for PCB assembly. The product offering includes single and double rows, and comes in bulk, tube, tape and reel packaging to suit different types of product handling systems.

KEY FEATURES

- **Centerline:** 2.00mm [0.079"]
- **Contact Dimension:** 0.50mm [0.02"] square pins
- **Connector Size:** 2-25 positions per row, available in single and double row
- **PCB Thickness:** 1.6mm to 2.4mm [0.063" to 0.094"]
- **Environmental:** Operating Environment Class III

BENEFITS

- Intermateable solution with major brand receptacles
- 38% space saving on PCB board compared to 2.54mm [0.1"], allowing for extended functionality
- Efficient with automated surface mounting and through-hole-reflow manufacturing

APPLICATIONS

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

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ELECTRICAL

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

MECHANICAL

- **Operating Temperature:** -40°C to 125°C
- **Reflow Solder:** Capable to 260°C
- **Vibration:** No electrical discontinuity greater than 1 microsecond

MATERIALS

- **Plating:** 0.76µm [30µ"] Gold, 0.38µm [15µ"] Gold, 0.1µm [4µ"] Gold, Tin
- **Housing Material:** High Temperature Plastic, UL 94V0, Black
- **Contact Material:** Brass

SPECIFICATIONS

- RoHS & REACH Compliant
- UL Certified
- **Product Specification:** [108-64040](#)
- **Application Specification:** [114-32259](#)

PRODUCT OFFERINGS

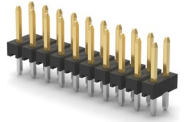
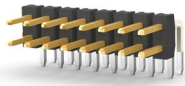

Type	Orientation	Solder Lead Length	Tin	0.1µm [4µ"] Gold	0.38µm [15µ"] Gold	0.76µm [30µ"] Gold	Packaging	
Breakaway Header Single Row	Vertical	TH/THR	2.8mm [0.110"]	2355201	2355172	2355181	2355186	Box (without Cap)
				2355195	2355045	2355177	2355182	Tube (without Cap)
				2355197	2355104	2355179	2355184	Tube (with Cap)
				2355199	2355122	2355180	2355185	Tape & Reel (with Cap)
	Right Angle	TH/THR	2.8mm [0.110"]	2842121	2842122	2842123	2842124	Box (without Cap)
				2842109	2842110	2842111	2842112	Tube (without Cap)
				2842113	2842114	2842115	2842116	Tube (with Cap)
				2842117	2842118	2842119	2842120	Tape & Reel (with Cap)
	Vertical	SMT	-	2842105	2842106	2842107	2842108	Tube (with Cap)
				2842101	2842102	2842103	2842104	Tape & Reel (with Cap)

PART NUMBER DEFINITION

Single Row (2-25 pins)			
Position	Part Number	Position	Part Number
2	xxxxxxx-2	14	1-xxxxxxx-4
3	xxxxxxx-3	15	1-xxxxxxx-5
4	xxxxxxx-4	16	1-xxxxxxx-6
5	xxxxxxx-5	17	1-xxxxxxx-7
6	xxxxxxx-6	18	1-xxxxxxx-8
7	xxxxxxx-7	19	1-xxxxxxx-9
8	xxxxxxx-8	20	2-xxxxxxx-0
9	xxxxxxx-9	21	2-xxxxxxx-1
10	1-xxxxxxx-0	22	2-xxxxxxx-2
11	1-xxxxxxx-1	23	2-xxxxxxx-3
12	1-xxxxxxx-2	24	2-xxxxxxx-4
13	1-xxxxxxx-3	25	2-xxxxxxx-5

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Type	Orientation	Solder Lead Length	Tin	0.1µm [4µ"] Gold	0.38µm [15µ"] Gold	0.76µm [30µ"] Gold	Packaging		
Breakaway Header Double Row		Vertical	TH/ THR	2.8mm [0.110"]	2842137	2842138	2842139	2842140	Box (without Cap)
					2842125	2842126	2842127	2842128	Tube (without Cap)
					2842129	2842130	2842131	2842132	Tube (with Cap)
					2842133	2842134	2842135	2842136	Tape & Reel (with Cap)
		Right Angle	TH/ THR	2.8mm [0.110"]	2842161	2842162	2842163	2842164	Box (without Cap)
					2842149	2842150	2842151	2842152	Tube (without Cap)
					2842153	2842154	2842155	2842156	Tube (with Cap)
					2842157	2842158	2842159	2842160	Tape & Reel (with Cap)
		Vertical	SMT	-	2842145	2842146	2842147	2842148	Tube (with Cap)
					2842141	2842142	2842143	2842144	Tape & Reel (with Cap)

PART NUMBER DEFINITION

Double Row (4-50 pins)			
Position	Part Number	Position	Part Number
4 (2x2)	xxxxxxx-2	28 (14x2)	1-xxxxxxx-4
6 (3x2)	xxxxxxx-3	30 (5x2)	1-xxxxxxx-5
8 (4x2)	xxxxxxx-4	32 (16x2)	1-xxxxxxx-6
10 (5x2)	xxxxxxx-5	34 (17x2)	1-xxxxxxx-7
12 (6x2)	xxxxxxx-6	36 (18x2)	1-xxxxxxx-8
14 (7x2)	xxxxxxx-7	38 (19x2)	1-xxxxxxx-9
16 (8x2)	xxxxxxx-8	40 (20x2)	2-xxxxxxx-0
18 (9x2)	xxxxxxx-9	42 (21x2)	2-xxxxxxx-1
20 (10x2)	1-xxxxxxx-0	44 (22x2)	2-xxxxxxx-2
22 (11x2)	1-xxxxxxx-1	46 (23x2)	2-xxxxxxx-3
24 (12x2)	1-xxxxxxx-2	48 (24x2)	2-xxxxxxx-4
26 (13x2)	1-xxxxxxx-3	50 (25x2)	2-xxxxxxx-5

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