



## 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

# AMPMODU 2mm BREAKAWAY HEADER

## 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"]	<a href="#">2355201</a>	<a href="#">2355172</a>	<a href="#">2355181</a>	<a href="#">2355186</a>	Box (without Cap)
				<a href="#">2355195</a>	<a href="#">2355045</a>	<a href="#">2355177</a>	<a href="#">2355182</a>	Tube (without Cap)
				<a href="#">2355197</a>	<a href="#">2355104</a>	<a href="#">2355179</a>	<a href="#">2355184</a>	Tube (with Cap)
				<a href="#">2355199</a>	<a href="#">2355122</a>	<a href="#">2355180</a>	<a href="#">2355185</a>	Tape & Reel (with Cap)
	Right Angle	TH/THR	2.8mm [0.110"]	<a href="#">2842121</a>	<a href="#">2842122</a>	<a href="#">2842123</a>	<a href="#">2842124</a>	Box (without Cap)
				<a href="#">2842109</a>	<a href="#">2842110</a>	<a href="#">2842111</a>	<a href="#">2842112</a>	Tube (without Cap)
				<a href="#">2842113</a>	<a href="#">2842114</a>	<a href="#">2842115</a>	<a href="#">2842116</a>	Tube (with Cap)
				<a href="#">2842117</a>	<a href="#">2842118</a>	<a href="#">2842119</a>	<a href="#">2842120</a>	Tape & Reel (with Cap)
	Vertical	SMT	-	<a href="#">2842105</a>	<a href="#">2842106</a>	<a href="#">2842107</a>	<a href="#">2842108</a>	Tube (with Cap)
				<a href="#">2842101</a>	<a href="#">2842102</a>	<a href="#">2842103</a>	<a href="#">2842104</a>	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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## PRODUCT OFFERINGS

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"]	<a href="#">2842137</a>	<a href="#">2842138</a>	<a href="#">2842139</a>	<a href="#">2842140</a>	Box (without Cap)
				<a href="#">2842125</a>	<a href="#">2842126</a>	<a href="#">2842127</a>	<a href="#">2842128</a>	Tube (without Cap)
				<a href="#">2842129</a>	<a href="#">2842130</a>	<a href="#">2842131</a>	<a href="#">2842132</a>	Tube (with Cap)
				<a href="#">2842133</a>	<a href="#">2842134</a>	<a href="#">2842135</a>	<a href="#">2842136</a>	Tape & Reel (with Cap)
	Right Angle	TH/THR	2.8mm [0.110"]	<a href="#">2842161</a>	<a href="#">2842162</a>	<a href="#">2842163</a>	<a href="#">2842164</a>	Box (without Cap)
				<a href="#">2842149</a>	<a href="#">2842150</a>	<a href="#">2842151</a>	<a href="#">2842152</a>	Tube (without Cap)
				<a href="#">2842153</a>	<a href="#">2842154</a>	<a href="#">2842155</a>	<a href="#">2842156</a>	Tube (with Cap)
				<a href="#">2842157</a>	<a href="#">2842158</a>	<a href="#">2842159</a>	<a href="#">2842160</a>	Tape & Reel (with Cap)
	Vertical	SMT	-	<a href="#">2842145</a>	<a href="#">2842146</a>	<a href="#">2842147</a>	<a href="#">2842148</a>	Tube (with Cap)
				<a href="#">2842141</a>	<a href="#">2842142</a>	<a href="#">2842143</a>	<a href="#">2842144</a>	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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