

AMPMODU 2mm BOARD-TO-BOARD RECEPTACLES

TE Connectivity (TE) AMPMODU 2mm Board-to-Board receptacles utilize phosphor bronze contacts with dual cantilever beams that are available in available in three gold plating options. The dual-beam design provides for an increased contact surface between the header pin and the receptacle contact to allow reliable signal transfer. Housed in a high-temperature-resistant liquid crystal polymer (LCP) plastic, receptacles can be applied in automated surface-mount, through-hole-reflow (Pin-in-Paste) and traditional through-hole mount processes. The complete portfolio includes various top- and dual-entry vertical and horizontal receptacles that offer multiple options for Board-to-Board stacking of header and receptacle combinations.

KEY FEATURES

- **Centerline:** 2.00mm [0.079"]
- Dual beam receptacle contact
- Top- and dual-entry vertical and horizontal receptacle assemblies
- Surface-mount and through-hole with multiple solder tail lengths for various PCB thicknesses, 1.6mm to 2.4mm [0.063" to 0.094"]
- Available in tube, tape and reel packaging
- Up to 25 positions per row, single and dual row offering
- **Environmental:** UL94V0, halogen free / low halogen

APPLICATIONS

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

BENEFITS

- Occupies 38% less space on PCB board compared with 2.54mm [0.1"] centerline, allowing for extended functionality
- Two-point electrical stability for reliable header and receptacle interconnection
- Multiple options for Board-to-Board stacking by headers and receptacles combination
- Ease of assembly with automated surface-mount and through-hole-reflow manufacturing

ELECTRICAL

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

MECHANICAL

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

MATERIALS

- **Plating:**
 - 30µ" [0.76µm] Gold
 - 15µ" [0.38µm] Gold
 - 4µ" [0.1µm] Gold
- **Contact Material:** Phosphor Bronze
- **Housing Material:** High temperature plastic (LCP), UL 94V0, Black

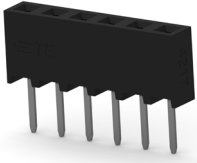
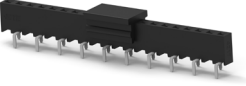
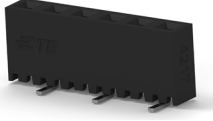
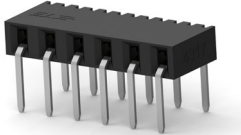
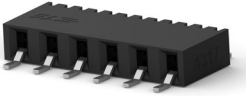
SPECIFICATIONS

- RoHS & REACH Compliant
- UL Certified
- VDE Approval Pending
- **Product Specification:** [108-64040](#)
- **Application Specification:** [114-32186](#)

AMPMODU 2mm Board-to-Board Receptacles

PRODUCT OFFERINGS

Board-to-Board Single Row Receptacles - Position size 2-25

Product Type	Product Image	Drawing	Solder Tail Length	0.1µm [4µ"] Gold	0.38µm [15µ"] Gold	0.76µm [30µ"] Gold	Packaging
Vertical Top Entry TH/THR		2307764	2.0mm [0.079"]	2307767	2307770	2307773	Tape & Reel (with Cap)
				2314868	2314869	2314870	Tube (with Cap)
			2.7mm [0.106"]	2314876	2314877	2314878	Tube (without Cap)
				2307768	2307771	2307774	Tape & Reel (with Cap)
			3.2mm [0.126"]	2314880	2314881	2314882	Tube (with Cap)
				2307769	2307772	2307775	Tube (without Cap)
Vertical Dual Entry Outrigger TH/THR		2307832	2.3mm [0.091"]	2307835	2307838	2307841	Tape & Reel (with Cap)
				2314900	2314901	2314902	Tube (with Cap)
			2.8mm [0.110"]	2314908	2314909	2314910	Tube (without Cap)
				2307836	2307839	2307842	Tape & Reel (with Cap)
			3.4mm [0.134"]	2314912	2338990	2314914	Tube (with Cap)
				2307837	2307840	2307843	Tube (without Cap)
Vertical Dual Entry SMT		2307812	SMT	2307813	2307814	2307815	Tape & Reel (with Cap)
				2314848	2314849	2314850	Tube (with Cap)
Horizontal TH/THR		2307700	2.1mm [0.083"]	2307703	2307706	2307709	Tape & Reel (without Cap)
				2314928	2314929	2314930	Tube (without Cap)
			2.8mm [0.110"]	2314936	2314937	2314938	Tube (without Cap)
				2307704	2307707	2307710	Tape & Reel (without Cap)
			3.4mm [0.134"]	2307705	2307708	2307711	Tube (without Cap)
Horizontal SMT		2307724	SMT	2307725	2307726	2307727	Tape & Reel (without Cap)
				2314944	2314945	2314946	Tube (without Cap)

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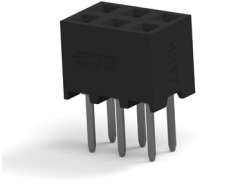
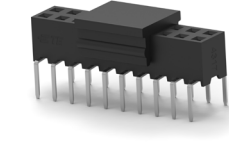
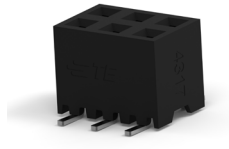
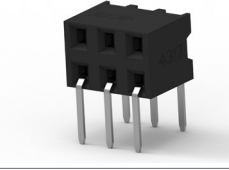
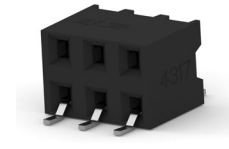
PART NUMBER DEFINITION

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

AMPMODU 2mm Board-to-Board Receptacles

PRODUCT OFFERINGS

Board-to-Board Double Row Receptacles - Position size 4-50

Product Type	Product Image	Drawing	Solder Tail Length	0.1µm [4µ"] Gold	0.38µm [15µ"] Gold	0.76µm [30µ"] Gold	Packaging
Vertical Top Entry TH/THR		2307776	2.0mm [0.079"]	2307779	2307782	2307785	Tape & Reel (with Cap)
				2314812	2314813	2314814	Tube (with Cap)
			2.7mm [0.106"]	2314820	2314821	2314822	Tube (without Cap)
				2307780	2307783	2307786	Tape & Reel (with Cap)
				2314824	2314825	2314826	Tube (with Cap)
				2307781	2307784	2307787	Tube (without Cap)
Vertical Dual Entry Outrigger TH/THR		2307820	2.3mm [0.091"]	2307823	2307826	2307829	Tape & Reel (with Cap)
				2314852	2314853	2314113	Tube (with Cap)
			2.8mm [0.110"]	2314860	2314861	2314862	Tube (without Cap)
				2307824	2307827	2307830	Tape & Reel (with Cap)
				2314864	2314865	2314866	Tube (with Cap)
				2307825	2307828	2307831	Tube (without Cap)
Vertical Dual Entry SMT		2307816	SMT	2307817	2307818	2307819	Tape & Reel (with Cap)
				2314844	2314845	2314846	Tube (with Cap)
Horizontal TH/THR		2307712	2.1mm [0.083"]	2307715	2307718	2307721	Tape & Reel (without Cap)
				2314916	2314917	2314918	Tube (without Cap)
			2.8mm [0.110"]	2314924	2314925	2314926	Tape & Reel (without Cap)
				2307716	2307719	2307722	Tape & Reel (without Cap)
3.4mm [0.134"]	2307717	2307720	2307723	Tube (without Cap)			
	Horizontal SMT		2307728	SMT	2307729	2307730	2307731
2314940					2314941	2314942	Tube (without Cap)

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PART NUMBER DEFINITION					
Double Row [4-50 pins]					
Position	Part Number	Position	Part Number	Position	Part Number
4 (2x2)	xxxxxx-4	20 (10x2)	2-xxxxxx-0	36 (18x2)	3-xxxxxx-6
6 (3x2)	xxxxxx-6	22 (11x2)	2-xxxxxx-2	38 (19x2)	3-xxxxxx-8
8 (4x2)	xxxxxx-8	24 (12x2)	2-xxxxxx-4	40 (20x2)	4-xxxxxx-0
10 (5x2)	1-xxxxxx-0	26 (13x2)	2-xxxxxx-6	42 (21x2)	4-xxxxxx-2
12 (6x2)	1-xxxxxx-2	28 (14x2)	2-xxxxxx-8	44 (22x2)	4-xxxxxx-4
14 (7x2)	1-xxxxxx-4	30 (15x2)	3-xxxxxx-0	46 (13x2)	4-xxxxxx-6
16 (8x2)	1-xxxxxx-6	32 (16x2)	3-xxxxxx-2	48 (14x2)	4-xxxxxx-8
18 (9x2)	1-xxxxxx-8	34 (17x2)	3-xxxxxx-4	50 (25x2)	5-xxxxxx-0

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