

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

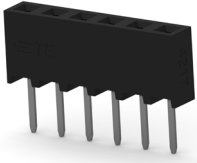
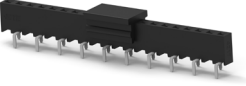
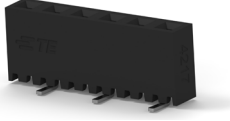
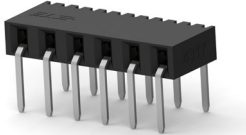
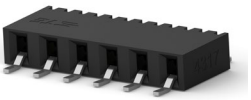
SPECIFICATIONS

- 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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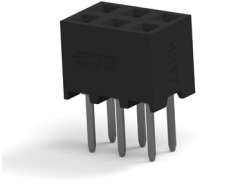
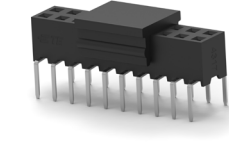
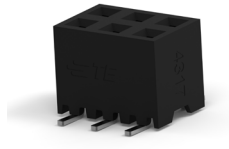
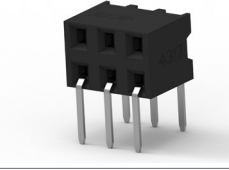
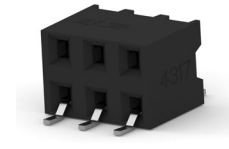
PART NUMBER DEFINITION

| 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) |
| | | | 3.2mm [0.126"] | 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) |
| | | | 3.4mm [0.134"] | 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 | Tape & Reel (without Cap) |
| | | | | 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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