

AMPMODU SMALL CENTERLINE INTERCONNECTION SYSTEMS

TE Connectivity's (TE) AMPMODU Small Centerline Interconnection Systems are fine pitch 1.0 mm [0.0394"] connectors that offer 85% space savings on the board when compared to standard 2.54 mm pitch products. Their dual-beam contact design provides a reliable electrical connection even in severe shock and vibration environments. To serve a broad range of design requirements, the portfolio offers up to 100 positions with 2 plating options and supports automated surface mounting and reflow processes.

BENEFITS

- 85% space savings on PCB with 1.0 mm centerline as compared to 2.54 mm [0.100"] connectors
- Reliable signal transfers through two points of contact even in severe shock/vibration applications
- Manufacturing flexibility in automated environment with surface mount configuration with pick and place cap
- Improved durability and corrosion resistance with gold plating
- Time savings thanks to reflow capable materials
- Greater flexibility in assembly of boards with dual entry receptacles

APPLICATIONS

- Industrial controls
- Building and home automation devices
- Servo drives
- Programmable Logic Controllers (PLC)
- IO devices
- Telecommunication equipment
- Robotics
- Instrumentation and test equipment

AMPMODU Small Centerline Interconnection Systems

KEY FEATURES

- **Centerline:** 1.0 mm [0.0394"]
- **Mounting style:** surface mount
- **Mounting angle:** vertical
- **Receptacle contact design:** dual beam
- **Receptacle entry specification:** dual entry
- **Housing material:** high-temp thermoplastic (LCP)
- **Packaging:** tubes with Pick & Place caps
- **Connector size:** double row, 5-50 per row
- **Solderability:** re-flow capable up to 260°C

ELECTRICAL

- **Current rating:** 1A max per contact
- **Operating voltage:** 30VAC
- **Dielectric withstanding voltage:** 300VAC

MECHANICAL

- **Operating temperature:** -55°C to +125°C
- **Vibration:** EIA-364-28, no electrical discontinuity greater than 1 microsecond
- **Solderability:** re-flow capable up to 260°C



MATERIALS

- **Housing:** high-temperature thermoplastic (LCP)
- **Header/receptacle contact material:** copper alloy
- **Plating options:** 30µ" [0.76 µm] gold
5µ" [0.1 µm] gold flash

SPECIFICATIONS

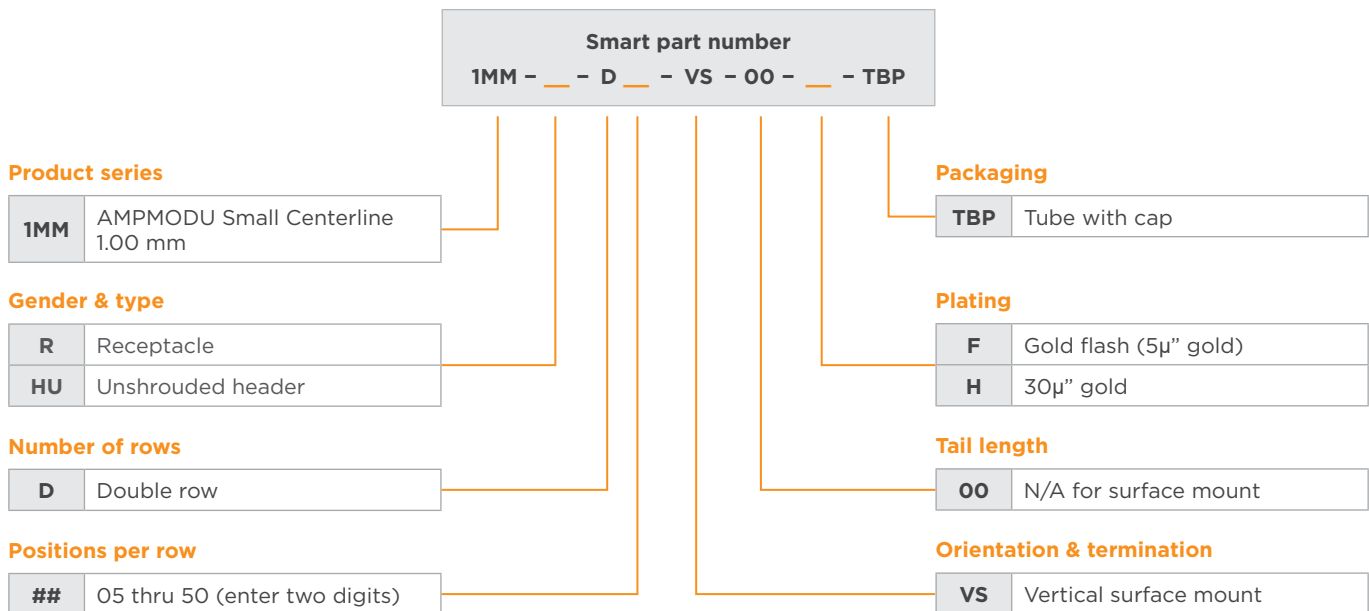
- RoHS compliant
- REACH compliant
- UL recognized at 1.0A
- CSA recognized at 0.8A
- **Product specification:** [108-32154](#)
- **Application specification:** Receptacle: [114-32329](#)
Header: [114-32210](#)

PRODUCT INFORMATION

Type	Rows	Positions per row	Mounting style	Plating	Packaging	Base part number
Vertical dual entry receptacle 	2	5 - 50	Surface mount	30µ" [76µm] Gold	Tube w/ P&P cap	2267440
5µ" [0.1µm] Gold				2267465		
30µ" [76µm] Gold				2331929		
5µ" [0.1µm] Gold				2331928		
Vertical unshrouded header 						

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SMART PART NUMBER DEFINITION



SMART PN EXAMPLES

- AMPMODU Small Centerline, 5 positions per row, receptacle, double row, vertical, surface mount, 30μ" gold, tube w/ cap
1MM-R-D05-VS-00-H-TBP
- AMPMODU Small Centerline, 7 positions per row, unshrouded header, double row, vertical, surface mount, gold flash, tube w/ cap
1MM-HU-D07-VS-00-F-TBP

TE PART NUMBER DEFINITION

Position	Part number	Position	Part number	Position	Part number	Position	Part number	Position	Part number
2 (1x2)	N/A	22 (11x2)	1-xxxxxxx-1	42 (21x2)	2-xxxxxxx-1	62 (31x2)	3-xxxxxxx-1	82 (41x2)	4-xxxxxxx-1
4 (2x2)	N/A	24 (12x2)	1-xxxxxxx-2	44 (22x2)	2-xxxxxxx-2	64 (32x2)	3-xxxxxxx-2	84 (42x2)	4-xxxxxxx-2
6 (3x2)	N/A	26 (13x2)	1-xxxxxxx-3	46 (23x2)	2-xxxxxxx-3	66 (33x2)	3-xxxxxxx-3	86 (43x2)	4-xxxxxxx-3
8 (4x2)	N/A	28 (14x2)	1-xxxxxxx-4	48 (24x2)	2-xxxxxxx-4	68 (34x2)	3-xxxxxxx-4	88 (44x2)	4-xxxxxxx-4
10 (5x2)	xxxxxxx-5	30 (15x2)	1-xxxxxxx-5	50 (25x2)	2-xxxxxxx-5	70 (35x2)	3-xxxxxxx-5	90 (45x2)	4-xxxxxxx-5
12 (6x2)	xxxxxxx-6	32 (16x2)	1-xxxxxxx-6	52 (26x2)	2-xxxxxxx-6	72 (36x2)	3-xxxxxxx-6	92 (46x2)	4-xxxxxxx-6
14 (7x2)	xxxxxxx-7	34 (17x2)	1-xxxxxxx-7	54 (27x2)	2-xxxxxxx-7	74 (37x2)	3-xxxxxxx-7	94 (47x2)	4-xxxxxxx-7
16 (8x2)	xxxxxxx-8	36 (18x2)	1-xxxxxxx-8	56 (28x2)	2-xxxxxxx-8	76 (38x2)	3-xxxxxxx-8	96 (48x2)	4-xxxxxxx-8
18 (9x2)	xxxxxxx-9	38 (19x2)	1-xxxxxxx-9	58 (29x2)	2-xxxxxxx-9	78 (39x2)	3-xxxxxxx-9	98 (49x2)	4-xxxxxxx-9
20 (10x2)	1-xxxxxxx-0	40 (20x2)	2-xxxxxxx-0	60 (30x2)	3-xxxxxxx-0	80 (40x2)	4-xxxxxxx-0	100 (50x2)	xxxxxxx-1

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