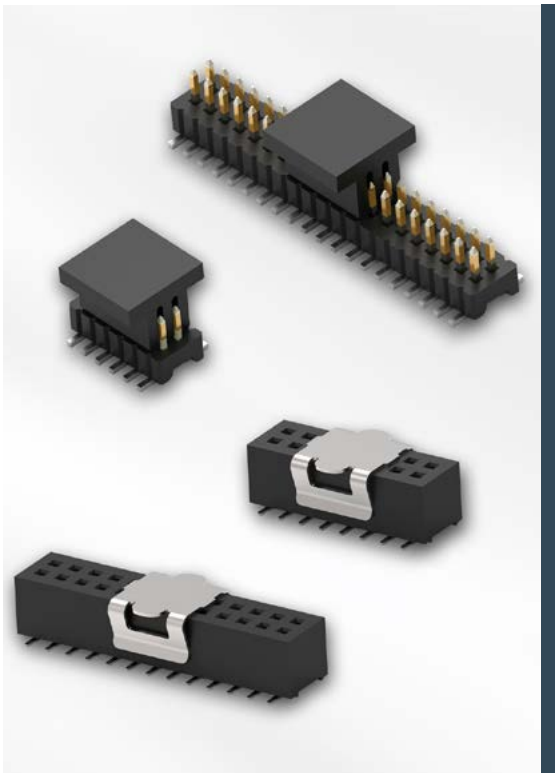


AMPMODU SMALL CENTERLINE

Tape & Reel packed for automated assembly

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.

TAPE & REEL PACKAGING

The existing product portfolio of Small Centerline products is now extended with Tape & Reel packaging. New Tape & Reel packaging allows further automation of assembly and enables placement of connectors onto the board in automated assembly with pick and place caps.

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

AMPMODU SMALL CENTERLINE

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
  Tape and reel with Pick & Place caps
- **Connector size:** double row, 5-50 per row
- **Solderability:** re-flow capable up to 260°C

APPLICATIONS

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

ELECTRICAL

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

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

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

STANDARDS

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

AMPMODU SMALL CENTERLINE

SMART PART NUMBERING SYSTEM

Part Number
1MM - __ - D__ - VS - 00 - __ - __

PRODUCT SERIES AND CENTERLINE (1)

1MM	AMPMODU Small Centerline 1.00mm

GENDER / TYPE (2)

R	Receptacle
HU	Unshrouded header

NUMBER OF ROWS (3)

D	Double row

NUMBER OF POSITIONS PER ROW (4)

##	Enter two digits • Tube: 05 – 48 & 50 per row • T&R: 03 – 48 & 50 per row

ORIENTATION & TERMINATION (5)

VS	Vertical surface mount

TAIL LENGTH (6)

00	N/A for surface mount

PLATING (7)

F	5µ" [0.1 µm] Gold (gold flash)
H	30µ" [0.76 µm] Gold

PACKAGING (8)

TBP	Tube with cap
TRP	Tape & Reel with cap

SMART PN EXAMPLES

- AMPMODU Small Centerline, 10-position (2 x 5 positions) receptacle, double row, vertical, surface mount, 30µ" gold, tube w/ cap
  1MM-R-D05-VS-00-H-TBP
- AMPMODU Small Centerline, 14-position (2 x 7 positions) unshrouded header, double row, vertical, surface mount, gold flash, T&R w/ cap
  1MM-HU-D07-VS-00-F-TRP

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