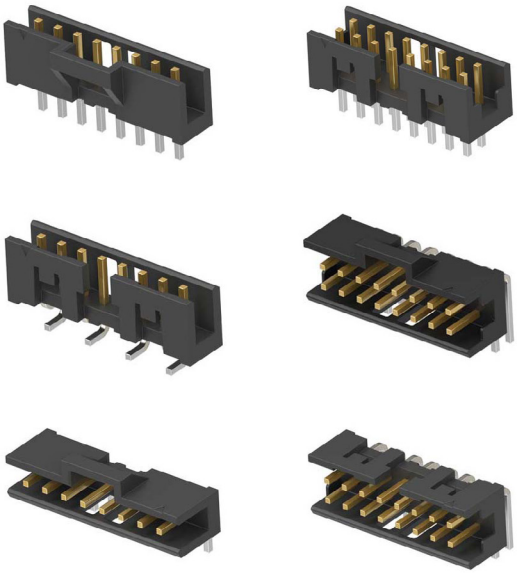


AMPMODU 2 mm SHROUDED HEADERS

TE Connectivity's (TE) AMPMODU 2 mm Shrouded Headers can be used in a wide range of applications requiring a reliable signal transfer. Our shrouded headers come in a single and double row configurations, and are available in vertical and right-angle orientations. Options include both through-hole and surface mount terminations. These 2 mm headers occupy 38 percent less space on a PCB than the standard 2.54 mm [0.100"] centerline, allowing customers to build more functionality onto their boards. Housings are molded in a high-temp thermoplastic that is resistant to reflow soldering temperatures. For applications requiring latching, customers can select headers with detent latches or a positive latch. Our headers are available in variants suitable for automated surface mounting, through-hole-reflow and traditional through-hole mounting onto boards, enabling customers to choose from a wide range of options for PCB assembly.

KEY BENEFITS

- 38% space saving on a PCB board compared to 2.54 mm [0.100"] centerline, allowing for extended functionality
- Polarization feature supports correct mating
- Efficient and cost-effective application on boards with automated surface mounting and through-hole-reflow manufacturing
- Detent and positive latches supports secure mating in vibration environments
- Intermateable solution with other major brand receptacles

AMPMODU 2 mm SHROUDED HEADERS

APPLICATIONS

- PLC / IO devices
- Servo drives
- Material handling equipment
- Building and home automation
- Industrial controls
- Robotics
- Instrumentation and test equipment

ELECTRICAL

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

MECHANICAL

- **Operating Temperature:** -40°C to 105°C (tin plated)
  -40°C to 125°C (gold plated)
- **Solderability:** Reflow capable up to 260°C
- **Vibration:** No electrical discontinuity greater than 1 microsecond

MATERIALS

- **Plating:** 30 µ" [0.76 µm] gold
  15 µ" [0.38 µm] gold
  4 µ" [0.1 µm] gold flash
  Tin
- **Contact Material:** Phosphor bronze
- **Housing Material:** High-temperature plastic (LCP), black
- **Environmental:** UL94 V0, low halogen
  Operating environment class III

SPECIFICATIONS

- **Product Specification:** 108-64040
- **Application Specification:** 114-64040
- **RoHS & REACH compliant**
- **UL approval pending**
- **VDE Approval**

AMPMODU 2 mm SHROUDED HEADERS

SMART PART NUMBER DEFINITION

1) HEADERS WITH DETENT LATCHES

2MM - HSD - _ _ - _ - _ - _ - _

PRODUCT SERIES (1)

2MM	AMPMODU 2 mm series

GENDER / TYPE (2)

HSD	Shrouded headers with detent latches

NUMBER OF ROWS (3)

S	Single row
D	Double row

NUMBER OF PINS PER ROW (4)

##	02 thru 25 (enter two digits) • Single row: 02 thru 16 • Double row: 02 thru 16, 20, 22, 25 per row

ORIENTATION & TERMINATION (5)

VT	Vertical through hole
VS	Vertical surface mount
HT	Horizontal through hole

**see table DESIGN NAVIGATOR for guidance*

TAIL LENGTH (6)

00	N/A for surface mount
01	0.087“ [2.2 mm]
02	0.110“ [2.8 mm]

**select allowable Tail Length from table DESIGN NAVIGATOR*

PLATING (7)

T	Tin
F	4 µ" [0.1 µm] Gold (gold flash)
M	15 µ" [0.38 µm] Gold
H	30 µ" [0.76 µm] Gold

PACKAGING (8)

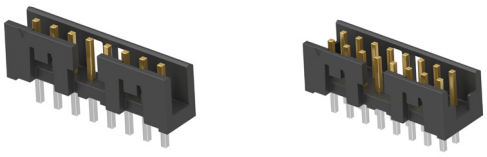
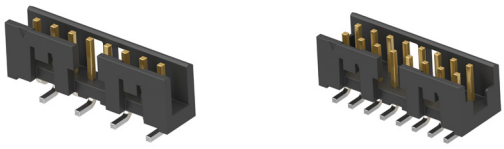
TB	Tube without cap
TBP	Tube with cap (N/A for 2 positions per row)
TRP	Tape and reel with cap (N/A for 2 positions per row for horizontal through hole)

**select allowable Packaging from table DESIGN NAVIGATOR*

SMART PN EXAMPLES

- AMPMODU 2 mm, shrouded header with detent latches, single row, 8 positions (1 x 8),horizontal through hole, 2.8 mm tail length, 15µ" [0.38µm] gold, tube without cap: **2MM-HSD-S08-HT-02-M-TB**

DESIGN NAVIGATOR

Orientation & Termination		Tail Length		Packaging
VT		01	0.087“ [2.2 mm]	TB
				TBP
				TRP
		02	0.110“ [2.8 mm]	TB
				TBP
				TRP
VS		00	-	TRP
				TBP
HT		01	0.087“ [2.2 mm]	TB
				TBP
				TRP
		02	0.110“ [2.8 mm]	TB
				TBP
				TRP

AMPMODU 2 mm SHROUDED HEADERS

2) HEADERS WITH POSITIVE LATCH

2MM - HSP - _ _ - _ - _ - _ - _

PRODUCT SERIES (1)

2MM	AMPMODU 2 mm series

GENDER / TYPE (2)

HSP	Shrouded headers with positive latch

NUMBER OF ROWS (3)

S	Single row
D	Double row

NUMBER OF PINS PER ROW (4)

##	03 thru 16 per row (enter two digits)

ORIENTATION & TERMINATION (5)

VT	Vertical through hole
VS	Vertical surface mount
HT	Horizontal through hole

**see table DESIGN NAVIGATOR for guidance*

TAIL LENGTH (6)

00	N/A for surface mount
01	0.087“ [2.2 mm]
02	0.110“ [2.8 mm]

**select allowable Tail Length from table DESIGN NAVIGATOR*

PLATING (7)

T	Tin
M	15 µ” [0.38 µm] Gold
H	30 µ” [0.76 µm] Gold

PACKAGING (8)

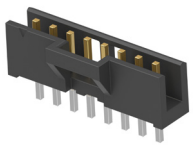
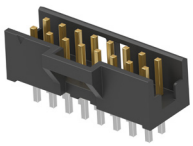
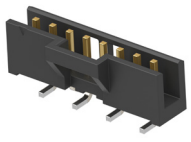
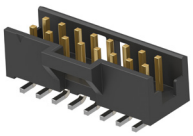
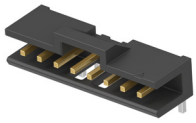
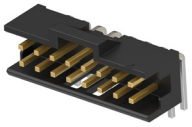
TB	Tube without cap
TBP	Tube with cap
TR	Tape and reel without cap
TRP	Tape and reel with cap

**select allowable Packaging from table DESIGN NAVIGATOR*

SMART PN EXAMPLES

- AMPMODU 2 mm, shrouded header with positive latch, double row, 16 positions (2 x 8), vertical through hole, 2.2 mm tail length, 30µ” [0.76µm] gold, tube without cap: **2MM-HSP-D08-VT-01-H-TB**

DESIGN NAVIGATOR

Orientation & Termination		Tail Length		Packaging
VT	 	01	0.087“ [2.2 mm]	TB
				TBP
				TRP
		02	0.110“ [2.8 mm]	TB
				TBP
				TRP
VS	 	00	-	TRP
				TBP
HT	 	01	0.087“ [2.2 mm]	TB
				TR
		02	0.110“ [2.8 mm]	TB
				TR

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