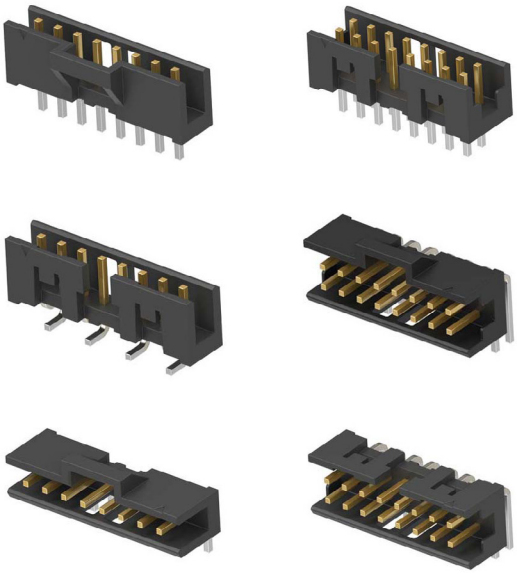


AMPMODU 2 mm SHROUDED HEADERS

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)

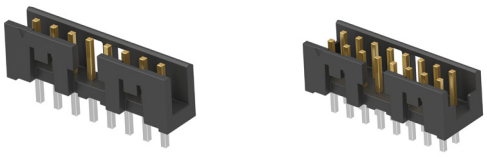
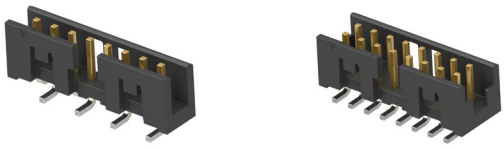
TB	Tube without cap
TBP	Tube with cap (N/A for 2 positions per row)
TRP	Tape and reel with cap (N/A for 2 positions per row for horizontal through hole)

**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)

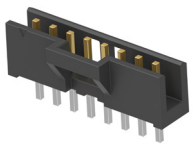
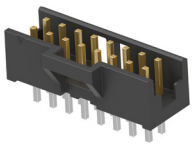
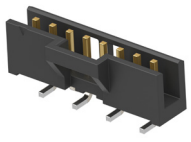
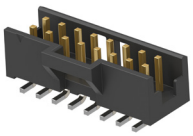
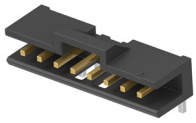
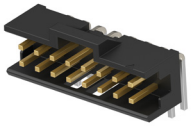
TB	Tube without cap
TBP	Tube with cap
TR	Tape and reel without cap
TRP	Tape and reel with cap

**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

te.com

© 2023 TE Connectivity. All Rights Reserved.

AMPMODU, TE Connectivity, TE connectivity (logo) and EVERY CONNECTION COUNTS are trademarks owned or licensed by TE Connectivity. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this brochure, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this catalog are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.

08/23 VL

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

TE Connectivity:

1969656-1 917696-1 U5254-000005-030PA 1393431-1 1743455-2 2-292161-3 2310537-1 SBCHE64R7K 1-794222-0 1903112-2 3-1393225-0 CRGCQ2010J3K3 1-962915-1 175977-2 SBCHE154R7K 2380312-2 936348-1 CPF0402B37K4E1 MPT100C18RF TE50BR39J 3631B101LL 2377783-2 2834055-1 650075-000 RH73H2A40MKTN SMW73R0JT 141991-2 2005330-1 3430B2F51RTDF ROX05SJ18R