



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

2MM	AMPMODU 2 mm series
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GENDER / TYPE

HSD	Shrouded headers with detent latches
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NUMBER OF ROWS

S	Single row
D	Double row

NUMBER OF PINS PER ROW

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

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

PACKAGING

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)

PLATING

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

TAIL LENGTH

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

*see table DESIGN NAVIGATOR for guidance

*select allowable Packaging from table DESIGN NAVIGATOR

*select allowable Tail Length 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
VS		00	-	TBP
				TRP
				TB
		01	0.087" [2.2 mm]	TBP
HT		01	0.087" [2.2 mm]	TRP
				TB
				TBP
		02	0.110" [2.8 mm]	TRP

INDUSTRIAL / AMPMODU 2 mm SHROUDED HEADERS

PAGE 3

AMPMODU 2 mm SHROUDED HEADERS

2) HEADERS WITH POSITIVE LATCH

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

1

2

3

4

5

6

7

8

PRODUCT SERIES

2MM

AMPMODU 2 mm series

GENDER / TYPE

HSP

Shrouded headers with positive latch

NUMBER OF ROWS

S

Single row

D

Double row

NUMBER OF PINS PER ROW

##

03 thru 16 per row (enter two digits)

ORIENTATION & TERMINATION

VT

Vertical through hole

VS

Vertical surface mount

HT

Horizontal through hole

PACKAGING

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

PLATING

T

Tin

M

15 μ" [0.38 μm] Gold

H

30 μ" [0.76 μm] Gold

TAIL LENGTH

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

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	
VS				TBP	
				TRP	
00		-	TRP		
			TBP		
HT		01	0.087" [2.2 mm]	TB	
				TR	
		02	0.110" [2.8 mm]	TB	
				TR	

INDUSTRIAL / AMPMODU 2 mm SHROUDED HEADERS

PAGE 4

AMPMODU 2 mm SHROUDED HEADERS

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[2MM-HSP-D04-VS-00-T-TRP](#)