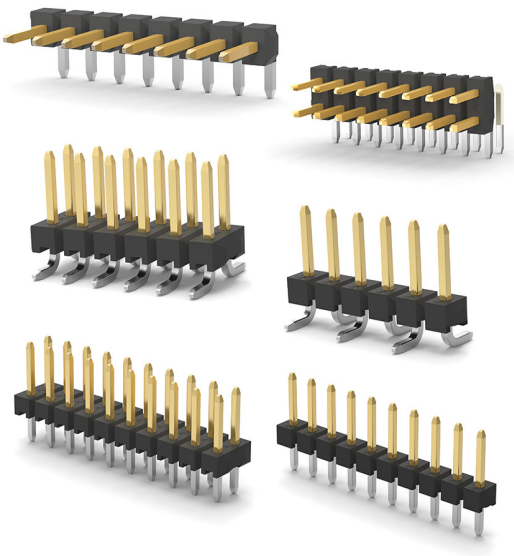


AMPMODU 2 mm BREAKAWAY HEADERS

TE Connectivity (TE) AMPMODU 2 mm connector family offers a wide variety of reliable connectors for Board-to-Board and Wire-to-Board solutions. 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. Our breakaway headers are intermateable with other major brand receptacles in the market. They are available in variants suitable for automated surface mounting, through-hole-reflow and traditional through-hole mounting onto boards, providing customers with a spectrum of options for PCB assembly. The product offering includes single and double row options, vertical and right angle orientations, and comes in tube and tape & reel packaging to suit different types of product handling systems.

KEY BENEFITS

- 38% space saving on a PCB board compared to 2.54 mm [0.100”] centerline, allowing for extended functionality
- Efficient and cost effective application on boards with automated surface mounting and through-hole-reflow manufacturing
- Intermateable solution with other major brand receptacles

AMPMODU 2 mm BREAKAWAY 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:** 650VAC
- **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 BREAKAWAY HEADERS

SMART PART NUMBER DEFINITION

2MM - HB - _ _ - _ - _ - _ - _

1 PRODUCT SERIES

2MM	AMPMODU 2 mm series

2 GENDER / TYPE

HB	Breakaway headers

3 NUMBER OF ROWS

S	Single row
D	Double row

4 NUMBER OF PINS PER ROW

##	02 thru 25 per row (enter two digits)

5 ORIENTATION & TERMINATION

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

**see table DESIGN NAVIGATOR for guidance*

6 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*

7 PLATING

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

8 PACKAGING

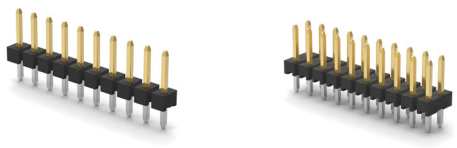
TB	Tube without cap
TBP	Tube with cap (N/A for 2 and 3 positions per row)
TRP	Tape and reel with cap

**select allowable Packaging from table DESIGN NAVIGATOR*

SMART PN EXAMPLES

- AMPMODU 2 mm, breakaway header, double row, 20 positions (2 x 10), vertical surface mount, tail length: N/A, tin, T&R with cap: **2MM-HB-D10-VS-00-T-TRP**

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

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:

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