

**Two-Row Headers
Straight Post, .100 [2.54] Centers**

Dimensioning: *A-61-05-05*
 Dimensions are in inches and millimeters.
 Values in brackets are metric equivalents.
 Chart contains dimensions in inches over millimeters. *A-61-05-15*

**Solder Post and
ACTION PIN Contacts
(with Pin Protection
and Guide Pins)**

Material:

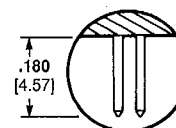
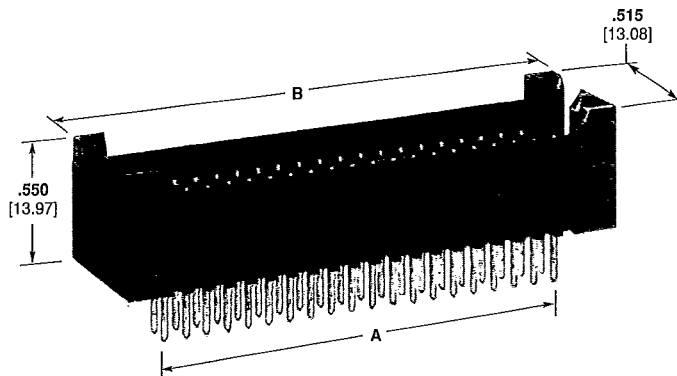
Housing—Glass filled thermoplastic, flame retardant.

Contacts—Phosphor bronze, plated as follows:

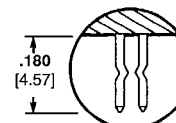
A—Duplex plated .000015 [0.00038] gold on mating end, .000100—.000200 [0.00254—0.00508] bright tin-lead on termination end, with entire contact under-plated .000050 [0.00127] nickel.

B—Duplex plated .000030 [0.00076] on mating end, .000100—.000200 [0.00254—0.00508] bright tin-lead on termination end, with entire contact under-plated .000050 [0.00127] nickel.

C—Selectively plated gold flash over .000050 [0.00127] nickel on entire contact, with additional .000030 [0.00076] gold on mating end and .000015 [0.00038] gold on termination end.

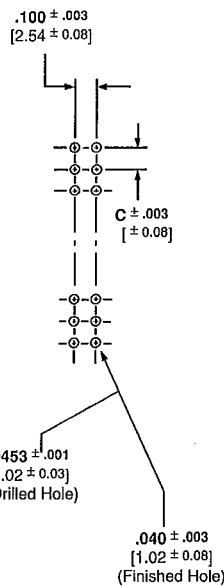


.025 [0.64] Square Solder Posts



.025 [0.64] Square Board Retention Posts

No. of Pos.	Dimensions		Header Part Nos. with .180 [4.57] Solder Posts			
	A	B	Standard Solder Posts		Board Retention Posts	
			Plating A	Plating B	Plating A	Plating B
12	.500 12.70	.980 24.89	102567-1	102692-1	534257-5	1-534978-6
14	.600 15.24	1.080 27.43	2-102567-3	—	1-534257-4	—
16	.700 17.78	1.180 29.97	—	1-102692-5	—	534978-2
20	.900 22.86	1.380 35.05	1-102567-1	1-102692-6	534257-6	534978-3
24	1.100 27.94	1.580 40.13	102567-2	102692-2	534257-7	534978-4
30	1.400 35.56	1.880 47.75	1-102567-3	1-102692-7	534257-8	534978-5
36	1.700 43.18	2.180 55.37	102567-3	102692-3	534257-9	534978-6
40	1.900 48.26	2.380 60.45	1-102567-2	1-102692-3	1-534257-0	534978-7
50	2.400 60.96	2.880 73.15	102567-6	102692-4	1-534257-5	534978-8
60	2.900 73.66	3.380 85.85	102567-4	102692-5	1-534257-1	534978-9
70	3.400 86.36	3.880 98.55	1-102567-0	1-102692-4	1-534257-2	1-534978-5
72	3.500 88.90	3.980 101.09	1-102567-6	1-102692-8	—	1-534978-0
80	3.900 99.06	4.380 111.25	102567-8	102692-6	534257-1	1-534978-1
86	4.200 106.68	4.680 118.87	1-102567-7	1-102692-9	—	—
90	4.400 111.76	4.880 123.95	1-102567-4	1-102692-2	—	—
96	4.700 119.38	5.180 131.57	—	102692-7	1-534257-3	1-534978-7
100	4.900 124.46	5.380 136.65	102567-9	102692-8	534257-2	—
110	5.400 137.16	5.880 149.35	1-102567-5	1-102692-0	—	1-534978-2
120	5.900 149.86	6.380 162.05	102567-7	102692-9	534257-3	1-534978-3
130	6.400 162.56	6.880 174.75	—	2-102692-0	—	—
140	6.900 175.26	7.380 187.45	2-102567-0	2-102692-1	—	1-534978-4
148	7.300 185.42	7.780 197.61	—	2-102692-3	—	—
160	7.900 200.66	8.380 212.85	2-102567-2	—	534257-4	—
180	8.900 226.06	9.380 238.25	2-102567-8	—	—	—
200	9.900 251.46	10.380 263.65	—	1-102692-1	—	534978-1



**Recommended Pc Board
Hole Layout**

C—Hole centerline to be .100 ± .003 [2.54 ± 0.08] tolerances not to accumulate within one connector pattern.

For drawings, technical data or samples, contact your AMP sales engineer or call the AMP Product Information Center 1-800-522-6752.

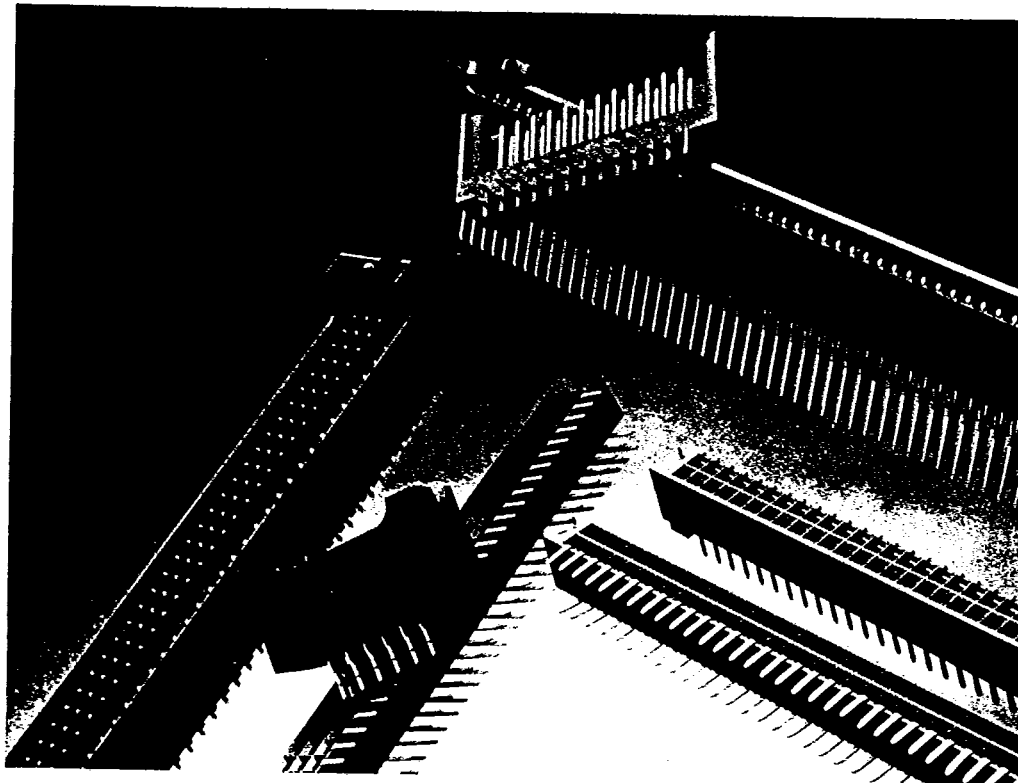
Notes: 1. Other header sizes can be made available upon request.
 2. Headers with make first/break last contacts can be made available upon request.

AMP

Two-Piece Printed Circuit Board Connectors (AMPMODU)

A-61-05-05
Catalog **A-61-05-13**
82076 **A-61-05-15**

Streamlined 4-91



AMPMODU Two-Piece Printed Circuit Board connectors are designed to reliably and economically meet the packaging and interconnection requirements of today's sophisticated electronics.

The double row system is produced in 10 thru 200 positions in the vertical headers and horizontal receptacles, and 10 thru 160 positions in the right angle headers and vertical receptacles.

The AMPMODU three-row connector system is produced in 30 through 300 positions (straight post headers and mating horizontal receptacles).

Both two- and three-row vertical headers are available with press-fit (ACTION PIN) posts or standard .025

[0.64] square solder posts. There is a simple seating tool for headers with ACTION PIN posts.

A board retention feature is offered in the two-row horizontal receptacles, two-row right angle headers and two- and three-row vertical headers. Built-in guides assure accurate header and receptacle alignment before contact engagement.

Closed entry receptacle housings provide a lead-in ramp for positive mating of contacts.

Need More Information?

Call the AMP Product Information Center:
1-800-522-6752.

The Product Information Center is staffed with specialists well versed in all AMP products. The Center can provide you with:

- Engineering Support
- Catalogs
- Technical Documents
- Product Samples
- AMP Authorized Distributor Locations

Dimensioning:

Dimensions are in inches and millimeters. Values in brackets are metric equivalents. Metric symbols used are:
N (newton)
mm² (square millimeter)
C (Celsius)

Note: Dimensions in this catalog are for reference purposes only. Customer drawings are available upon request.

Product Facts

- Two-Piece reliability
- Two- and three-row systems available
- Short signal path for VLSI applications
- Receptacles employ dual cantilever beams and built-in anti-overstress to provide reliable connections
- Built-in guides assure alignment before contact engagement
- Closed entry receptacle housings provide lead-in ramp for positive mating of contacts
- Shrouded headers provide full pin protection
- Polarized headers
- Vertical headers available with ACTION PIN posts or .025 [0.64] square solder posts
- Repairable ACTION PIN posts
- Simple seating tooling for headers with ACTION PIN posts
- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476
- Certified by Canadian Standards Association*, File No. LR 7189



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**AMPMODU Two-Piece
Interconnection System**

(Continued)

Dimensioning:
Dimensions are in inches and millimeters
unless specified otherwise.
Values in brackets are metric equivalents.

A-61-05-15

**Performance
Specifications****Current Rating:**3 amp max. for single contact;
2 amp max. per contact for fully
energized connector**Voltage Rating:**
250 VAC**Dielectric Rating:**
750 VAC between contacts for
one minute**Termination Resistance:**
12 milliohms max. at 100 millamps
test current, and 50 millivolts open
circuit voltage**Insulation Resistance:**
103 megohms after
temperature/humidity cycling**Temperature Rating:**
2658C to 11058C (glass-filled
thermoplastic housings)
2658C to 11258C (polyphenylene
sulfide housings)**Durability:**200 cycles for .000030 [0.00076]
gold plating; 75 cycles for .000015
[0.00038] gold plating**Mating Force:**
Standard—4 oz. [1.1 N] average per
contactLow Force—2.75 oz. [0.8 N]
average (or less) per contact**Unmating Force:**
Standard—.75 oz. [0.2 N] minimum
per contact after three mating cycles
Low Force—.50 oz. [0.14 N]
minimum per contact after three
mating cyclesSpecifications subject to change.
Consult AMP Incorporated for latest
design specifications.**Technical Documents**Various technical documents
are available for your use:**Product Specifications** describe technical performance
characteristics and verification tests. Intended for the design
engineer, the component engineer and the quality engineer.108-25017 Interconnection System, AMPMODU, 2 Piece
108-26003 ACTION PIN Contacts**Application Specifications** describe requirements for using
the product in its intended application and/or crimping
information. They are intended for the Packaging and
Design Engineer and the Machine Setup Person.114-9009 Header Assembly, 2-Piece, Double Row,
AMPMODU**Instruction Sheets** provide instructions for assembling or
applying the product. They are intended for the
Manufacturing Assembler or Operator.IS 9054 Seating Tools
IS 9185 ACTION PIN Contact Front Extraction Tool
IS 2636 ACTION PIN Contact Rear Extraction and
Replacement Tool**Handbook**HB 5697 Guide to Application of ACTION PIN
Connectors