

## Excellent Integrated System Limited

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[TE Connectivity AMP Connectors](#)  
[173279-3](#)

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**AMP**

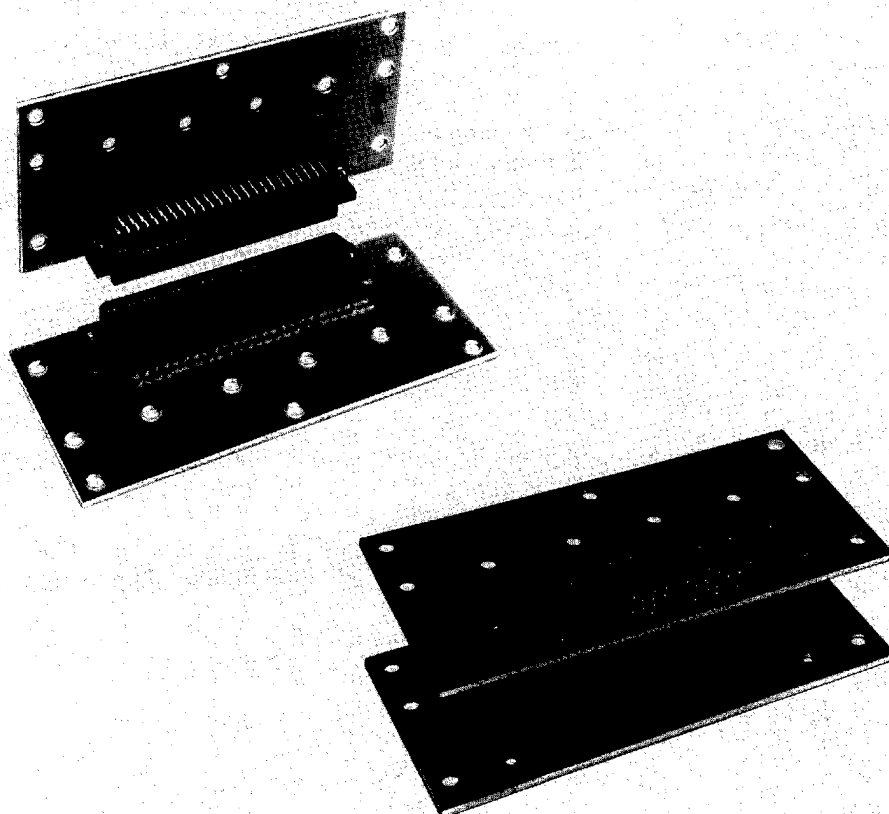
AMPLIMITE  
 Subminiature D Connectors

Catalog 82068  
 Revised 9-96

**AMPLIMITE .050 Series Connectors (.050 x .100 [1.27 x 2.54] Centerline)  
 All-Plastic Board-to-Board Headers, Series I**

**Product Facts**

- High-density D type interface
- Flame retardant thermo-plastic housings, material 94V-0 rated
- Right-angle and vertical configurations available
- Right-angle headers—30-96 contact positions
- Vertical headers—20-96 contact positions
- Recognized under the Component Program of Underwriters Laboratories, Inc., File No. E28476 
- Certified by Canadian Standards Association, File No. LR7189 



**All-Plastic Board-to-Board Headers**

These board-mount, plug and receptacle headers offer a high-density D type interface and feature a .050 x .100 [1.27 x 2.54] contact centerline spacing. They are ideally suited for applications where EMI/RFI protection is not necessary. Headers are available in two configurations, right-angle and vertical mount, with a choice of screw down, retention leg or solder post board retention.

This versatility in mounting configurations makes possible a variety of board-to-board interconnections, such as horizontal, parallel and right-angle. Right-angle headers are available in 30 through 96 positions and vertical mount headers are available in 20 through 96 positions.

**Performance Specifications**

**Voltage/Current rating:** 100 VDC, 1 ampere, max.  
**Dielectric withstanding voltage:** 500 VAC, 1 min.  
**Insulation resistance:** 1,000 Megohms, min.  
**Operating temperature range:** -55° to +105°C  
**Insertions/Extractions:** 100 cycles

**Technical Documents**

**Product Specification:** 108-5203  
**Instruction Sheet:** 408-292J

**AMP**

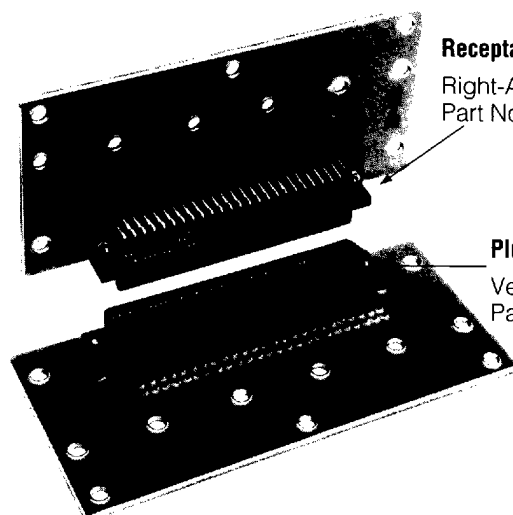
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## AMPLIMITE .050 Series Connectors All-Plastic Board-to-Board Headers, Series I

### Board-to-Board Headers Typical Application

### Right-Angle Connectors

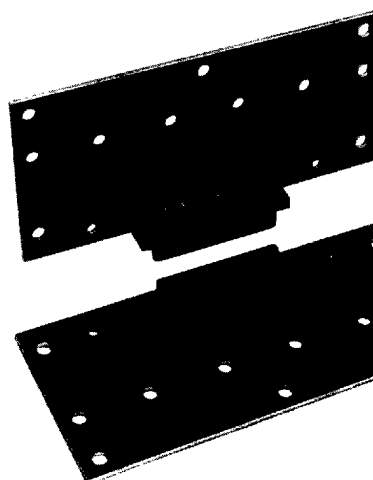


#### Receptacle Header

Right-Angle Mount  
 Part No. 173277  
 174207  
 174217  
 174213  
 174682

#### Plug Header

Vertical Mount  
 Part No. 173280  
 174216  
 174683  
 175711



#### Plug Header

Right-Angle Mount  
 Part No. 173278  
 174218  
 174214  
 174684

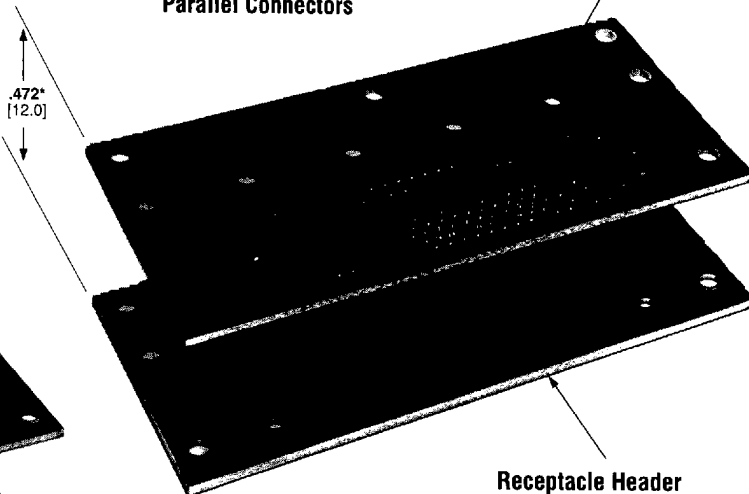
#### Receptacle Header

Vertical Mount  
 Part No. 173279  
 174215  
 174681  
 175710

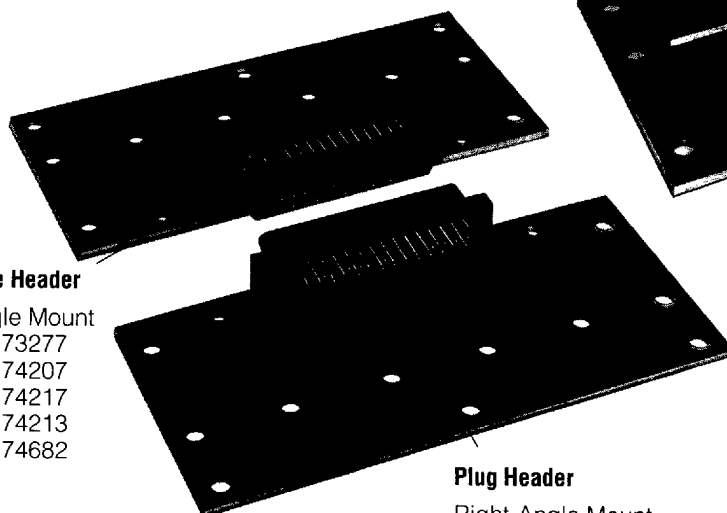
#### Plug Header

Vertical Mount  
 Part No. 173280  
 174216  
 174683  
 175711

### Parallel Connectors



### Horizontal Connectors



#### Receptacle Header

Right-Angle Mount  
 Part No. 173277  
 174207  
 174217  
 174213  
 174682

#### Plug Header

Right-Angle Mount  
 Part No. 173278  
 174218  
 174214  
 174684

#### Receptacle Header

Vertical Mount  
 Part No. 173279  
 174215  
 174681  
 175710

\*Mating Dimension

AMPLIMITE .050 Series  
 Connectors, Series I

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**AMPLIMITE .050 Series Connectors All-Plastic Board-to-Board Headers, Series I (Continued)**

**Receptacle Headers  
 Vertical Mount  
 With Thru-Holes for  
 Board Mounting**

**Material and Finish:**

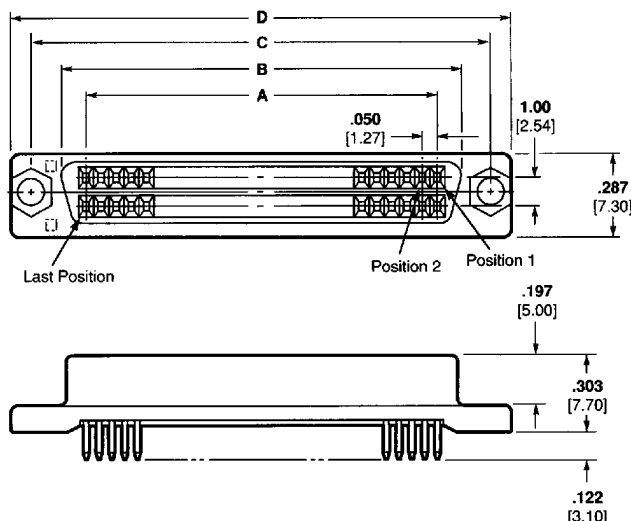
**Housing**—Thermoplastic, 94V-0 rated, black

**Contacts**—Phosphor bronze, duplex plated .000008 [0.0002] min. or .000030 [0.00076] min. gold on contact area. .0254 [0.001] min. tin-lead on soldering area, with entire contact underplated .000050 [0.00127] min. nickel

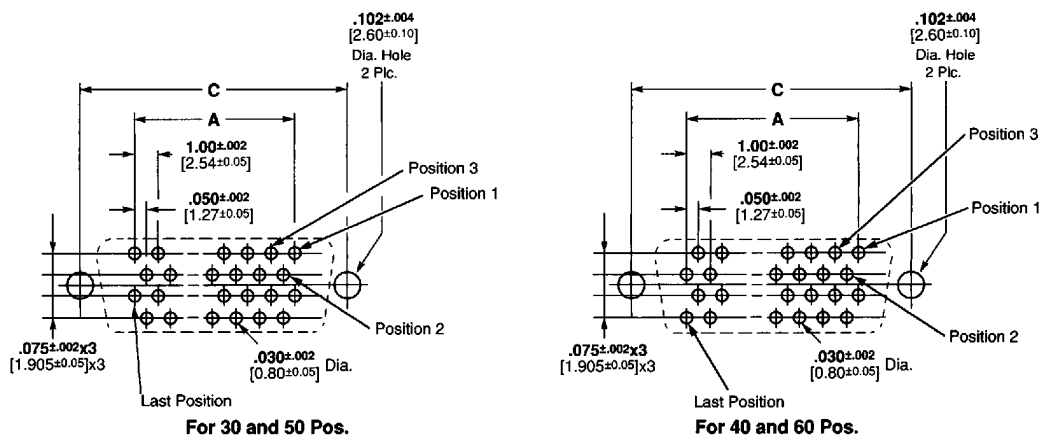
**Technical Documents:**

**Product Specification**—108-5203

**Instruction Sheet**—408-292J



**Pc Board Mounting Dimensions**



- Notes:** 1. Connector side of pc board layout shown.  
 2. Pc board layouts and connector dimensions illustrated above serve as a guide only; they are not to be used for actual design or construction of customer equipment. Consult AMP customer drawings for detailed pc board layout and connector dimensions requirements.

No. of Pos.	Dimensions				Part Numbers	
	A	B	C	D	.000008 [0.0002]	.000030 [0.00076]
30	.700 17.78	.866 22.00	1.090 27.75	1.250 31.80	173279-1	6-173279-1
40	.950 24.13	1.110 28.30	1.340 34.10	1.500 38.10	173279-2	6-173279-2
50	1.200 30.48	1.370 34.70	1.590 40.45	1.750 44.50	173279-3	6-173279-3
60	1.450 36.83	1.610 41.00	1.840 46.80	2.000 50.80	173279-4	6-173279-4

**Note:** To mount connector to pc board, use M2 screws and nuts (not supplied).