

Linear ZIF Connectors

Product Facts

- Minimizes force needed to install and remove printed circuit boards
- Available in lever and bell crank styles
- Lever styles allow side and top card entry
- Wiping action contacts enhance electrical properties
- Contacts on .100 x .100 [2.54 x 2.54] or .125 x .125 [3.18 x 3.18] centers
- .025 [0.64] square posts
- Accepts PC boards from .054 to .070 [1.37 to 1.78] in thickness
- Normally closed design leaves springs in relaxed position
- 50 to 175 dual positions available on .100 [2.54] centerline connectors and 40 to 140 dual positions available on .125 [3.18] centerline connectors

Performance Specifications

Current vs. Temperature Rise*:
3 amperes at 30°C

Operating Temperature:
-65°C to +85°C

Contact Resistance:
16 milliohms max.

Durability: Tested to 250 cycles
(board-to-contact actuation)

*Consult AMP engineering when paralleling contacts for power applications.



AMP Linear Zero Insertion Force (ZIF) PC Board Edge Connectors are available in both lever and bell crank actuated styles and can be provided as panel assemblies, separate housings and contacts or as pre-assembled with solder post terminals.

Panel assemblies include a housing with ACTION PIN press-fit solderless contacts mounted on an epoxy board for rack application. Separate housing assemblies and ACTION PIN contacts allow customer assembly. These can be mounted as close as .625 [15.88]. More design latitude for high density application is provided by the side entry lever-type connector, permitting use of all sides of the PC board for edge-type I/O connections (see page 133). Where solder applications are

required, AMP has a line of preassembled connectors with tin-plated solder terminals. All these configurations are available in a broad range of sizes.

With ZIF style connectors, intermittencies can occur if a contact comes to rest on a piece of foreign matter (dust and dirt particles) found on PC boards. To decrease the probability of this happening, all connectors have been designed to include a wiping contact which produces a wiping action. This action, produced by the geometry and bending movements of the beam, pushes aside debris and allows for good electrical connection by cleaning the actual point of contact.

In addition, all connectors have removable wings which make it possible to repair or replace damaged cam rails, handles, contacts

and housing modules without removing the entire housing assembly from the board.

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Linear ZIF Connectors, .125 x .125 [3.18 x 3.18] Centerline (Continued)

ACTION PIN Contacts with Wiping Feature, .125 [3.18] Centerline

Material and Finish:

Copper alloy 725, plated .000015 [0.00038] gold per MIL-G-45204 in contact area; .000001 [0.00003] min. gold flash per MIL-G-45204 on post with entire contact underplated .000050 [0.00127] nickel per QQ-N-290

Related Product Data:

Performance Specifications—page 99

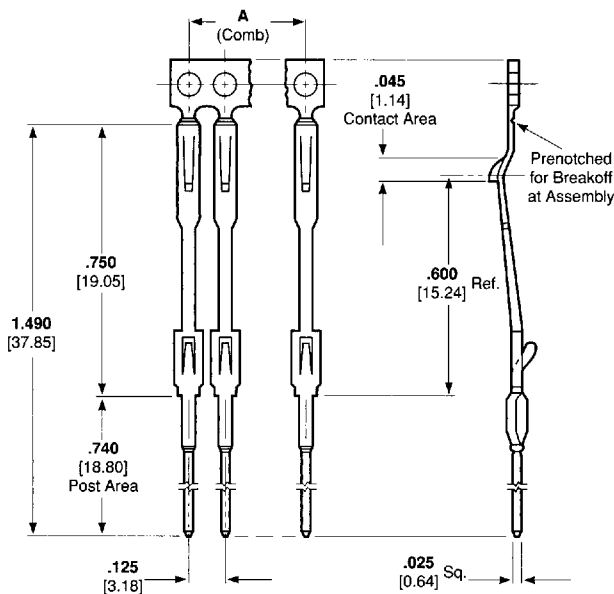
ACTION PIN Contact Description and Application Specification—page 110

Tooling—page 111

Technical Documents

(pages 172, 173):

AMP Instruction Sheet 408-2665



Contact Combs

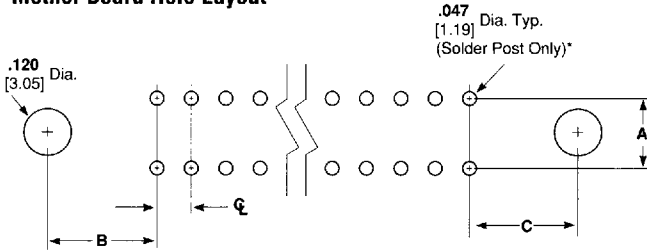
Number of Contacts Per Comb*	Dimension A	Part Number
56	6.875 174.63	1-119950-2

*At least two (2) contact combs required per housing.

Note: Other sizes can be made available, consult AMP.

Recommended PC Board Hole Layout and Edge Pattern, .125 [3.18] Centerline

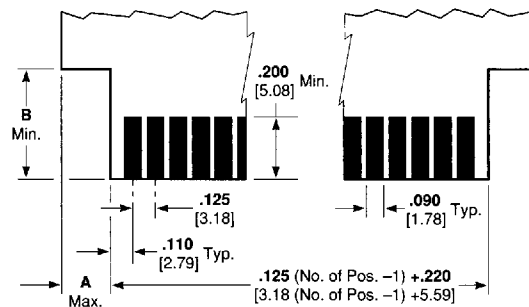
Mother Board Hole Layout



*For ACTION PIN post hole diameter, see page 110.

Connector Style	Dimensions			
	ϕ	A	B	C
Lever	.125 3.18	.125 3.18	.218 5.54	.187 4.75
Bell-Crank	.125 3.18	.125 3.18	1.250 31.75	.187 4.75

Daughter Board Edge Pattern



Connector Style	Entry Style	Dimensions	
		A	B
Lever	Side	.240 6.10	—
	Top	.240 6.10	.320 8.13
Bell-Crank	Top	.775 19.68	.600 15.24