

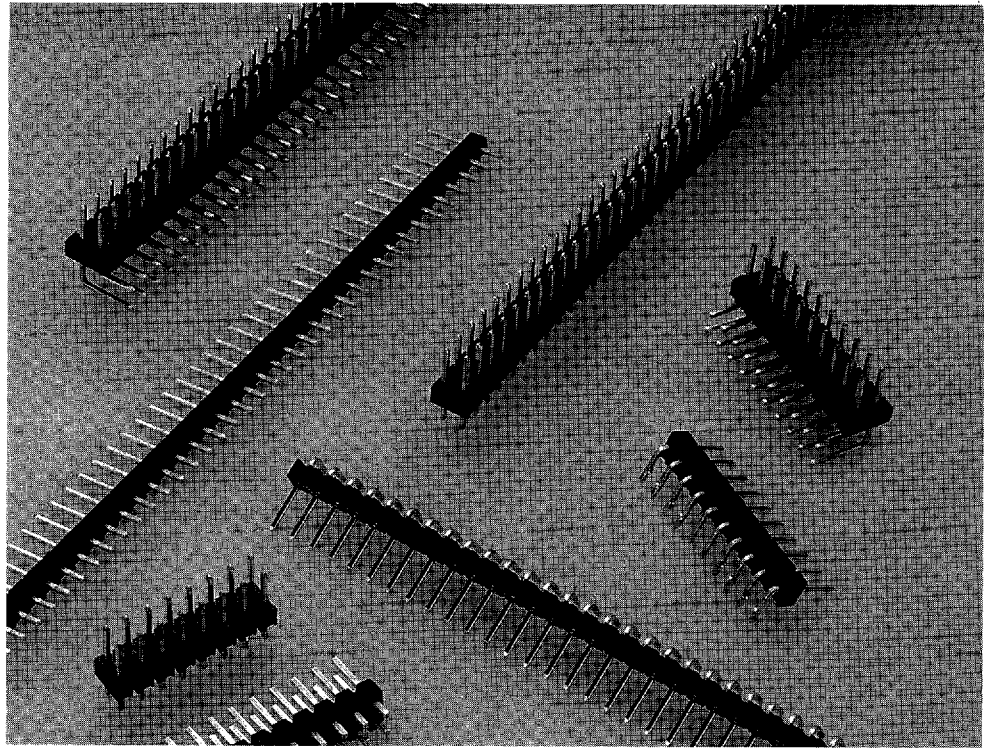


Breakaway and Retention Headers—Unshrouded

Product Facts

- Design and inventory versatility—headers can be broken into any size needed
- Variety of popular sizes available
- Substantial time/labor savings—install all posts at one time
- Vertical and right-angle versions available in single- and double-row configurations
- Phosphor bronze posts
- Choice of gold duplex or tin-lead plated posts
- Post lengths include .230 [5.84] and .318 [8.08] for connector mating
- Board retention feature available
- Flame retardant, black thermoplastic housings; 94V-0 rated
- Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 
- Certified by Canadian Standards Association, File No. LR 7189 



Performance Characteristics

Electrical:

Insulation Resistance—5,000 megohms minimum initial

Dielectric Withstanding Voltage—750 V rms at sea level

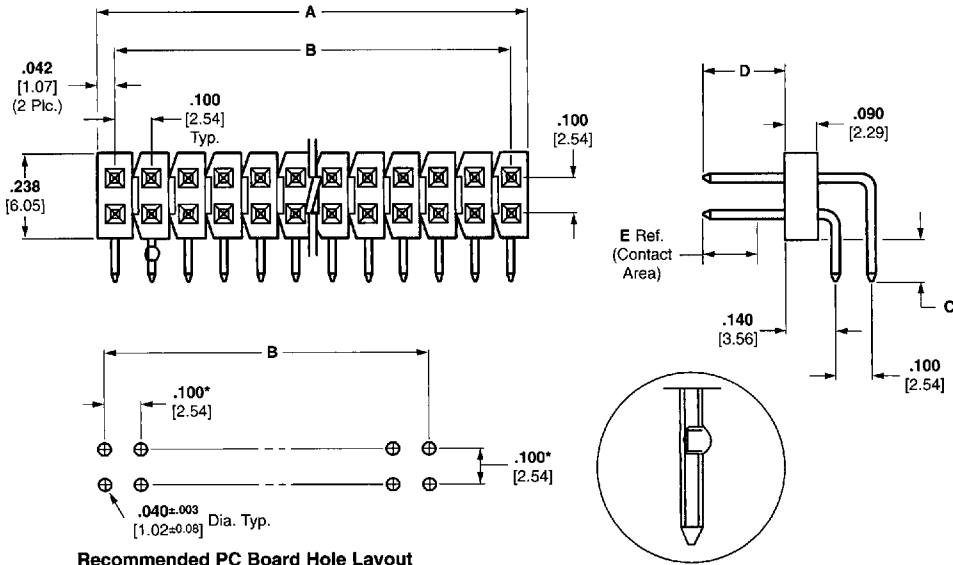
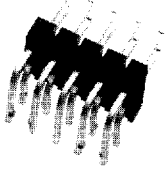
Environmental:

Operating Temperature—
-65°C to +105°C (black thermoplastic housings)

Current—3 amperes maximum per contact

Retention Headers—Unshrouded, Double-Row, .100 x .100 [2.54 x 2.54] Centers (Continued)

.025 [0.64] Square Right-Angle Post (with Board Retention Feature)



**Recommended PC Board Hole Layout
(for .055 [1.40] min. thick PC board)**

*±.003 [±0.08] tolerances not to accumulate within one connector pattern.

**Board Retention
using Swaged Tails
(All Header Sizes)**

Material and Finish:

Housing—Black thermoplastic, 94V-0 rated

Posts—Phosphor bronze, plated as follows:

Plating A—Duplex plated .000030 [0.00076] gold on contact area, .000100-.000200 [0.00254-0.00508] tin-lead on solder area, with entire post underplated .000050 [0.00127] nickel

Plating B—Duplex plated .000015 [0.00038] gold on contact area, .000100-.000200 [0.00254-0.00508] tin-lead on solder area, with entire post underplated .000050 [0.00127] nickel

Plating C—.000100-.000200 [0.00254-0.00508] tin-lead over .000050 [0.00127] nickel on entire post

Performance Characteristics:

Insertion Force—12 lb. [53.4N] maximum

Retention Force—25 lb. [1.11N] minimum

Related Product Data:

Mateable Connectors—Refer to the Mating Post Selection Guide (Page 6 or 218)

Technical Documents:

Page 213

No. of Pos.	Dimensions		C = .120 [3.05] D = .230 [5.84] E = .185 [4.70]			C = .125 [3.18] D = .318 [8.08] E = .200 [5.08]		
	A	B	Post Plating/Part Nos.			Post Plating/Part Nos.		
			Plating A	Plating B	Plating C	Plating A	Plating B	Plating C
2	.084 2.13	—	104353-1	104354-1	104355-1	104435-1	104436-1	104437-1
4	.184 4.67	.100 2.54	104353-2	104354-2	104355-2	104435-2	104436-2	104437-2
6	.284 7.21	.200 5.08	104353-3	104354-3	104355-3	104435-3	104436-3	104437-3
8	.384 9.75	.300 7.62	104353-4	104354-4	104355-4	104435-4	104436-4	104437-4
10	.484 12.29	.400 10.16	104353-5	104354-5	104355-5	104435-5	104436-5	104437-5
12	.584 14.83	.500 12.70	104353-6	104354-6	104355-6	104435-6	104436-6	104437-6
14	.684 17.37	.600 15.24	104353-7	104354-7	104355-7	104435-7	104436-7	104437-7
16	.784 19.91	.700 17.78	104353-8	104354-8	104355-8	104435-8	104436-8	104437-8
18	.884 22.45	.800 20.32	104353-9	104354-9	104355-9	104435-9	104436-9	104437-9
20	.984 24.99	.900 22.86	1-104353-0	1-104354-0	1-104355-0	1-104435-0	1-104436-0	1-104437-0
22	1.084 27.53	1.000 25.40	1-104353-1	1-104354-1	1-104355-1	1-104435-1	1-104436-1	1-104437-1
24	1.184 30.07	1.100 27.94	1-104353-2	1-104354-2	1-104355-2	1-104435-2	1-104436-2	1-104437-2
26	1.284 32.61	1.200 30.48	1-104353-3	1-104354-3	1-104355-3	1-104435-3	1-104436-3	1-104437-3
28	1.384 35.15	1.300 33.02	1-104353-4	1-104354-4	1-104355-4	1-104435-4	1-104436-4	1-104437-4
30	1.484 37.69	1.400 35.56	1-104353-5	1-104354-5	1-104355-5	1-104435-5	1-104436-5	1-104437-5
34	1.684 42.77	1.600 40.64	1-104353-6	1-104354-6	1-104355-6	1-104435-6	1-104436-6	1-104437-6
40	1.984 50.39	1.900 48.26	1-104353-7	1-104354-7	1-104355-7	1-104435-7	1-104436-7	1-104437-7
50	2.484 63.09	2.400 60.96	1-104353-8	1-104354-8	1-104355-8	1-104435-8	1-104436-8	1-104437-8
60	2.984 75.79	2.900 73.66	1-104353-9	1-104354-9	1-104355-9	1-104435-9	1-104436-9	1-104437-9
80	3.984 101.19	3.900 99.06	2-104353-0	2-104354-0	2-104355-0	2-104435-0	2-104436-0	2-104437-0

Notes: 1. Refer to the product drawing to determine the number and location of the board retention tails.
2. Other tail lengths are available, consult AMP Incorporated.

D 95E 0797312 0029032 T03

Dimensions are shown for reference purposes only.

Dimensions are in inches and millimeters unless specified otherwise. Values in brackets are metric equivalents. Chart dimensions are in inches over millimeters.

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

Specifications subject to change. Consult AMP Incorporated for latest specifications.