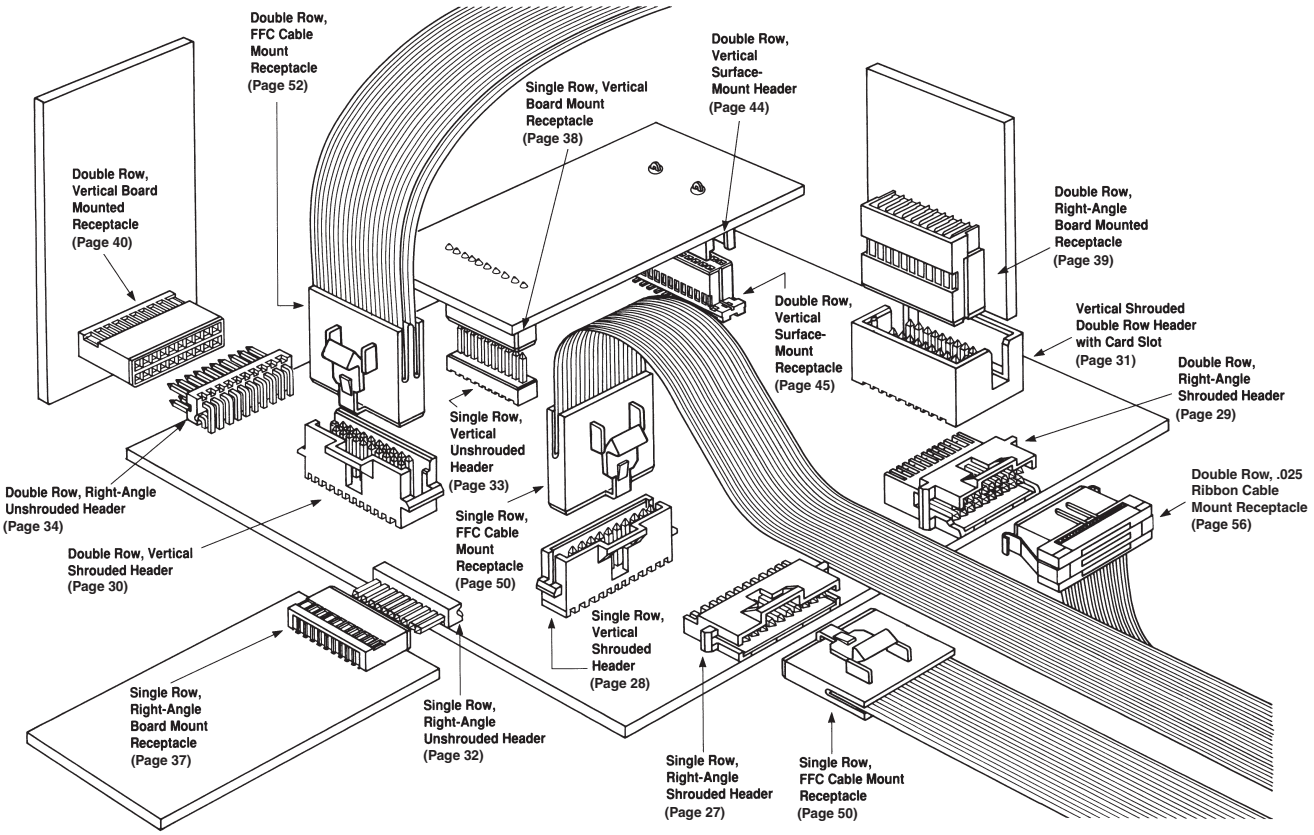
AMPMODU System 50 Connectors



The AMPMODU System 50 connector family includes a wide variety of high density board-to-board (thru-hole and surface-mount) and cable-to-board connectors. AMPMODU System 50 is composed of one- and two-row receptacles and post headers on .050 x .100 [1.27 x 2.54] spacing between contacts for extreme density and efficient use of printed circuit board area.

AMPMODU System 50 receptacles and header assemblies can be categorized in three groups: board-mount headers, board-mount receptacles and cable-to-board receptacles. Receptacle contacts and mating .015 [0.38] square posts are formed from high conductivity copper alloy and are selectively plated with gold to promote higher performance and reliability.

Board-mounted thru-hole post headers and receptacle connectors are available for right-angle and vertical mating configurations. Surface-mounted connectors are available in vertical, double row styles for parallel stacking applications. Shrouded post headers provide polarization to mating cable receptacles and aid alignment of mating connectors. Unshrouded headers allow close stacking of daughter cards. Vertical stacking connectors space parallel mated boards as shown in the illustration on page 63. Housings on all board-mount assemblies are made of high temperature tolerant materials and incorporate stand-offs for free drainage of flux cleaning solutions.

Cable-to-board connectors have integral latches for positive locking to shrouded mating headers (thru-hole or surface-mount). Ribbon cable connectors mass terminate 30 AWG [0.05 mm^2] solid and 32 AWG [0.03 mm^2] stranded, .025 [0.64] centerline ribbon cable with PVC or Teflon® insulation.

Connectors for mass termination to FFC cable or flexible etched circuitry have dual beam contacts; options include shielded cable and solder tabs. Both types of cable connectors are available as component parts and as completed assemblies.

The variety of components and application possibilities, combined with small size and outstanding quality, make AMPMODU System 50 suitable for high density systems.

- **Recognized under the Component Program of Underwriters Laboratories Inc. File No. E28476**
- **Certified by Canadian Standards Association*, File No. LR 7189**

*CSA certification pending on certain products, as noted.

Dimensioning:

Dimensions are in inches and millimeters. Values in brackets are metric equivalents. Metric symbols used are:

mm (millimeter)
cm (centimeter)
m (meter)
mm^2 (square millimeter)
C (Celsius)
N (newton)
kg (kilogram)

- **Produced under a Quality Management System certified to ISO 9001**

A copy of the certificate is available upon request.

Teflon® is a trademark of E.I. du Pont de Nemours and Company.

Catalog 1307819
Revised 8-08

www.tycoelectronics.com

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

Dimensions are shown for reference purposes only. Specifications subject to change.

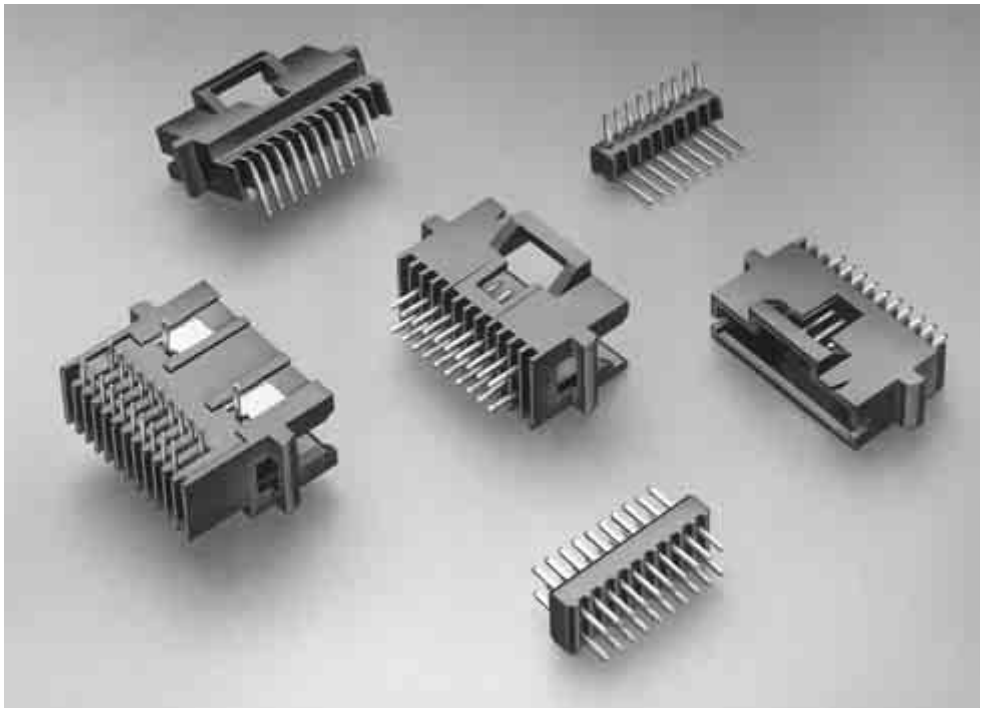
USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

Thru-Hole Headers—Shrouded, .050 x .100 [1.27 x 2.54] Centerline, Board-to-Board

Product Facts

- High density; contacts spaced on .050 x .100 [1.27 x 2.54] centers
- Single row; select sizes 4 thru 50 positions
- Double row; select sizes 10 thru 100 positions
- Stand-offs for ease of cleaning
- High temperature tolerant thermoplastic housings
- Shrouded and unshrouded headers available in single and double row, vertical and right-angle configurations



The AMPMODU System 50 interconnection system is designed to better meet industry's need for a high density interconnect system. The Board Mounted Thru-Hole Headers are available in shrouded and unshrouded versions. They are composed of single and double row post headers with .050 x .100 [1.27 x 2.54] spacing between contacts for extreme density and efficient use of printed circuit board area. The headers are available in 4 through 50 positions, in a single row configuration, and 10 through 100 positions, in a double row design.

Board mounted post headers are available in right-angle and vertical configurations. Shrouded post headers provide polarization and alignment features for mating printed circuit boards and cable connectors, while unshrouded headers allow close stacking of daughter cards. Housings for the headers are made of black thermoplastic material with a 94V-0 rating. The housings have stand-offs for free drainage of flux cleaning solutions.

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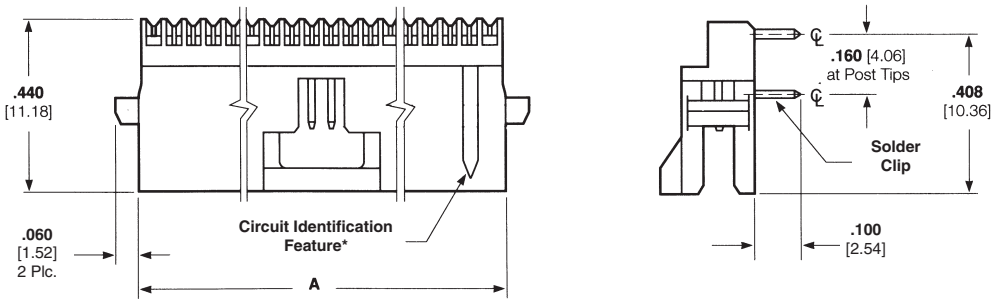
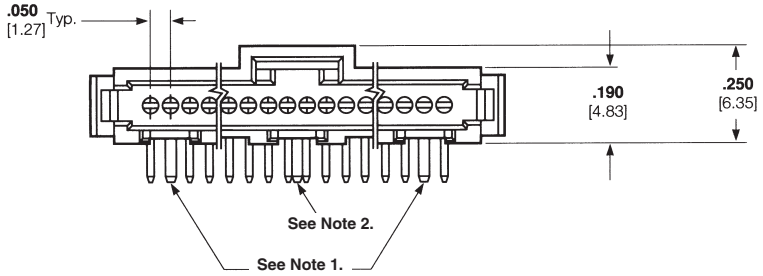
Thru-Hole Headers—Shrouded, .050 x .100 [1.27 x 2.54] Centerline, Board-to-Board (Continued)

Single Row, Right-Angle with Solder Clips





Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

Contacts — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder posts, with entire contact underplated .000050 [0.00127] nickel

Related Product Data

Performance Characteristics — page 63

Mateable Connectors — pages 38, 49 & 50

PC Board Hole Layout — page 41

Technical Documents — page 64

Product Specification 108-1093

Application Specification 114-25031

No. of Pos.	Dimension A	Part Numbers
4	**.330** [8.38]	5-104074-7
5	**.380** [9.65]	5-104074-2
6	**.430** [10.92]	5-104074-8
8	**.530** [13.46]	6-104074-0
10	**.630** [16.00]	5-104074-1
12	**.730** [18.54]	6-104074-1
15	**.880** [22.35]	5-104074-3
20	**1.130** [28.70]	5-104074-4
22	**1.230** [31.24]	6-104074-4
25	**1.380** [35.05]	5-104074-5
28	**1.530** [38.86]	7-104074-0
30	**1.630** [41.40]	5-104074-6
36	**1.930** [49.02]	6-104074-6
40	**2.130** [54.10]	6-104074-7
45	**2.380** [60.45]	6-104074-8
50	**2.630** [66.80]	6-104074-9

*Circuit identification feature omitted on 4, 5 and 6 position headers.

Notes:
1. Solder Clips located as shown for 10 through 30 position headers.
2. Solder Clips located as shown for 4 through 8 and 36 through 50 position headers.

Note: All part numbers are RoHS compliant.

Catalog 1307819
Revised 8-08

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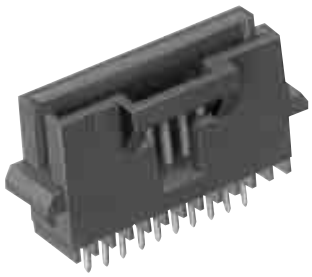
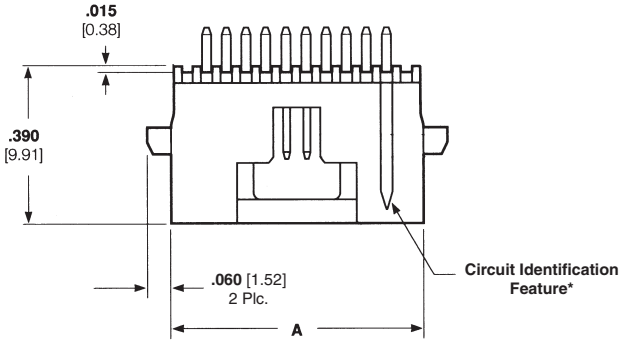
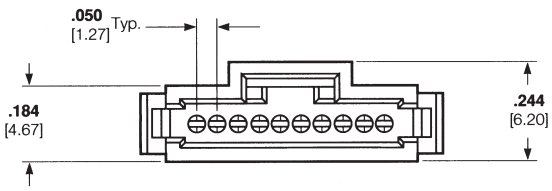
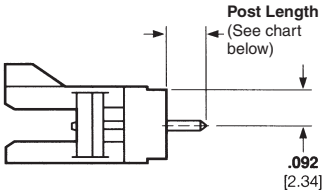
Thru-Hole Headers—Shrouded, .050 x .100 [1.27 x 2.54] Centerline, Board-to-Board (Continued)

Single Row, Vertical









Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

Contacts — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder posts, with entire contact underplated .00050 [0.00127] nickel

Related Product Data

Performance Characteristics — page 63

Mateable Connectors — pages 38, 49 & 50

Board-to-Board Spacing — page 63

PC Board Hole Layout — page 41

Technical Documents — page 64

Product Specification 108-1093

Application Specification 114-25031

No. of Pos.	Dimension A	Part Numbers	
		Post Length	
		.100 [2.54]	.145 [3.68]
4	**.330** [8.38]	5-104071-7	—
5	**.380** [9.65]	5-104071-2	—
6	**.430** [10.92]	5-104071-8	—
8	**.530** [13.46]	6-104071-0	—
10	**.630** [16.00]	5-104071-1	—
12	**.730** [18.54]	6-104071-1	5-104804-3
13	**.780** [19.81]	6-104071-2	—
15	**.880** [22.35]	5-104071-3	5-104804-2
17	**.980** [24.89]	6-104071-3	—
20	**1.130** [28.70]	5-104071-4	—
22	**1.230** [31.24]	6-104071-4	—
25	**1.380** [35.05]	5-104071-5	—
30	**1.630** [41.40]	5-104071-6	—
36	**1.930** [49.02]	6-104071-6	—
40	**2.130** [54.10]	6-104071-7	—
50	**2.630** [66.80]	6-104071-9	—

*Circuit identification feature omitted on 4, 5, and 6 position headers.

Note: All part numbers are RoHS compliant.

Catalog 1307819
Revised 8-08

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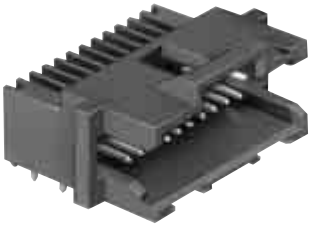
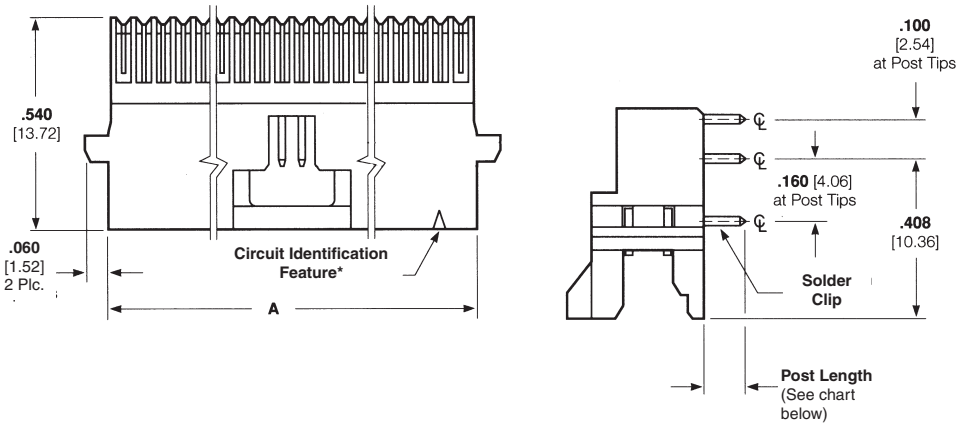
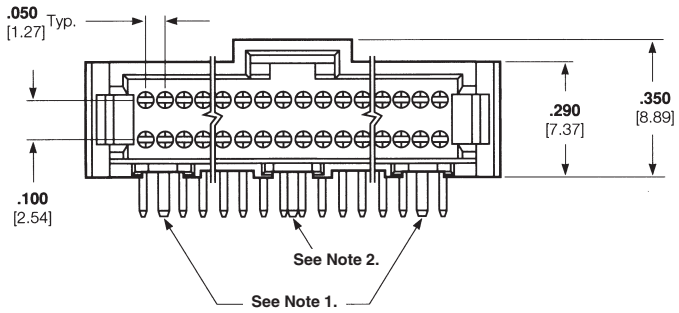
Thru-Hole Headers—Shrouded, .050 x .100 [1.27 x 2.54] Centerline, Board-to-Board (Continued)

Double Row, Right-Angle with Solder Clips







Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

Contacts — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder posts, with entire contact underplated .000050 [0.00127] nickel

Related Product Data

Performance Characteristics — page 63

Mateable Connectors — pages 40, 45, 51, 52, & 56

PC Board Hole Layout — page 41

Technical Documents — page 64

Product Specification 108-1093

Application Specification 114-25031

No. of Pos.	Dimension A	Part Numbers	
		Post Length	
		.100 [2.54]	.145 [3.68]
8	**.330** [8.32]	5-104069-8	—
10	**.380** [9.65]	5-104069-4	6-104477-2
12	**.430** [10.92]	—	5-104477-8
14	**.480** [12.19]	6-104069-0	—
16	**.530** [13.46]	6-104069-1	—
20	**.630** [16.00]	5-104069-1	5-104477-2
24	**.730** [18.54]	6-104069-2	6-104477-0
26	**.780** [19.81]	6-104069-3	—
30	**.880** [22.35]	5-104069-5	5-104477-3
34	**.980** [24.89]	6-104069-4	—
40	**1.130** [28.70]	5-104069-6	5-104477-4
50	**1.380** [35.05]	5-104069-2	5-104477-5
60	**1.630** [41.40]	5-104069-7	5-104477-9
68	**1.830** [46.48]	6-104069-8	—
72	**1.930** [49.02]	6-104069-6	5-104477-1
80	**2.130** [54.10]	5-104069-3	5-104477-6
100	**2.630** [66.80]	6-104069-7	5-104477-7

*Circuit identification feature omitted on 8, 10 and 12 position headers.

Notes:

1. Solder Clips located as shown for 16 through 100 position headers.
2. Solder Clips located as shown for 8 through 12 and 60 through 100 position headers.

Note: All part numbers are RoHS compliant.

Catalog 1307819
Revised 8-08

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South America: 55-11-2103-6000
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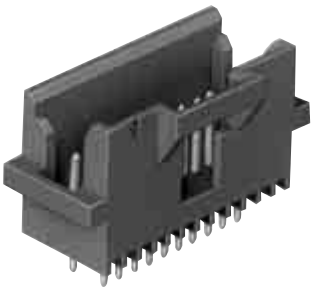
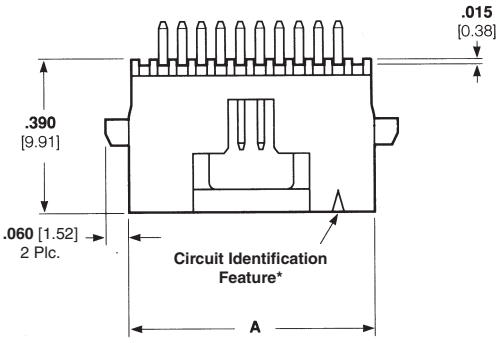
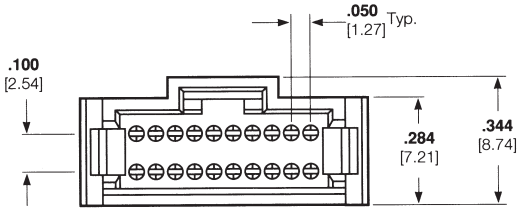
Japan: 81-44-844-8013
UK: 44-8706-080-208

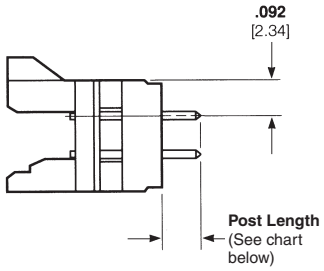
Thru-Hole Headers—Shrouded, .050 x .100 [1.27 x 2.54] Centerline, Board-to-Board (Continued)

Double Row, Vertical









Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

Contact — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder posts, with entire contact underplated .000050 [0.00127]nickel

Related Product Data

Performance Specifications — page 63

Mateable Connectors — pages 40, 45, 51, 52, & 56

Board-to-Board Spacing — page 63

PC Board Hole Layout — page 41

Technical Documents — page 64

Product Specification 108-1093

Application Specification 114-25031

No. of Pos.	Dimension A	Part Numbers	
		Post Length	
		.100 [2.54]	.145 [3.68]
10	**.380** [9.65]	5-104068-2	—
12	**.430** [10.92]	5-104068-8	—
14	**.480** [12.19]	5-104068-9	—
16	**.530** [13.46]	6-104068-0	5-104666-9
20	**.630** [16.00]	5-104068-1	5-104666-1
24	**.730** [18.54]	6-104068-1	6-104666-0
26	**.780** [19.81]	6-104068-2	—
30	**.880** [22.35]	5-104068-3	5-104666-2
34	**.980** [24.89]	6-104068-3	—
40	**1.130** [28.70]	5-104068-4	5-104666-3
44	**1.230** [31.24]	6-104068-4	—
50	**1.380** [35.05]	5-104068-5	5-104666-4
60	**1.630** [41.40]	5-104068-6	5-104666-7
68	**1.830** [46.48]	6-104068-8	5-104666-8
72	**1.930** [49.02]	6-104068-5	—
80	**2.130** [54.10]	6-104068-6	5-104666-5
100	**2.630** [66.80]	6-104068-7	5-104666-6

*Circuit identification feature omitted on 10 and 12 position headers.

Note: All part numbers are RoHS compliant.

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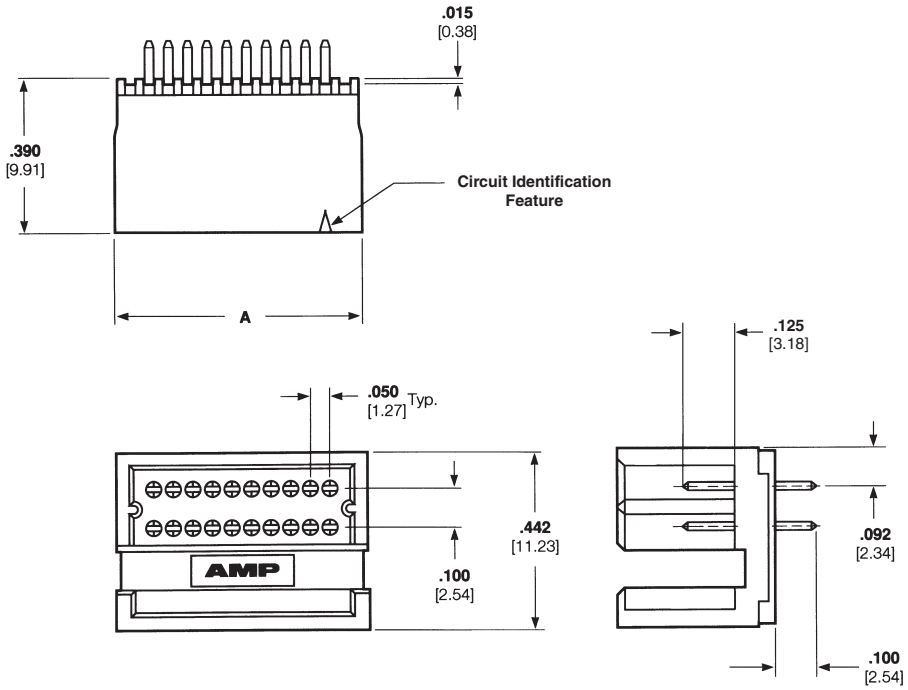
Thru-Hole Headers—Shrouded, .050 x .100 [1.27 x 2.54] Centerline, Board-to-Board (Continued)

Double Row, Vertical With Card Slots



Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

Contacts — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder posts, with entire contact underplated .000050 [0.00127] nickel

Related Product Data

Performance Specifications — page 63

Mateable Connectors — page 39

PC Board Hole Layout — page 41

Technical Documents — page 64

Product Specification 108-1093

Application Specification 114-25031

No. of Pos.	Dimension A	Part Numbers
10	**.394** [10.01]	5-104076-5
20	**.644** [16.36]	5-104076-1
30	**.894** [22.71]	5-104076-6
40	**1.144** [29.06]	5-104076-3
50	**1.394** [35.41]	5-104076-7
60	**1.644** [41.76]	5-104076-2
80	**2.144** [54.46]	5-104076-4
100	**2.644** [67.16]	5-104076-8

Note: All part numbers are RoHS compliant.

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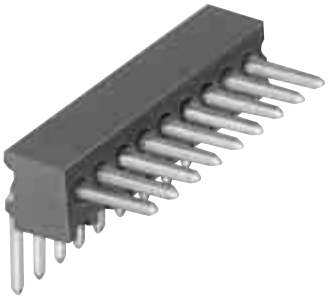
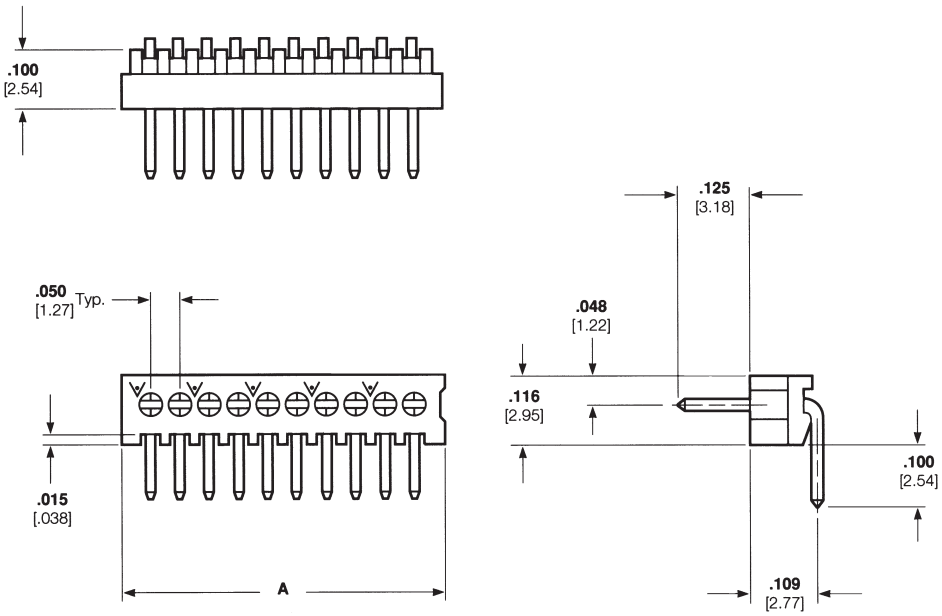
UK: 44-8706-080-208

Thru-Hole Headers—Unshrouded, .050 x .100 [1.27 x 2.54] Centerline, Board-to-Board

Single Row, Right-Angle





Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

Contacts — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder posts, with entire contact underplated .000050 [0.00127] nickel

Related Product Data

Performance Characteristics — page 63

Mateable Connectors — pages 37, 38, 49, & 50

PC Board Hole Layout — page 41

Technical Documents — page 64

Product Specification 108-1093

Application Specification 114-25031

No. of Pos.	Dimension A	Part Numbers
4	**.215** [5.46]	5-104186-1
8	**.415** [10.54]	5-104186-5
12	**.615** [15.62]	5-104186-7
15	**.765** [19.43]	5-104186-9
17	**.865** [21.97]	6-104186-0
20	**1.015** [25.78]	6-104186-1
25	**1.265** [32.13]	6-104186-3
30	**1.515** [38.48]	6-104186-5
31	**1.565** [39.75]	7-104186-0
40	**2.015** [51.18]	6-104186-7

Note: All part numbers are RoHS compliant.

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USA: 1-800-522-6752
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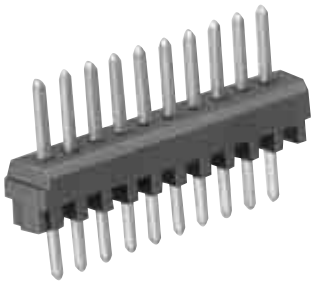
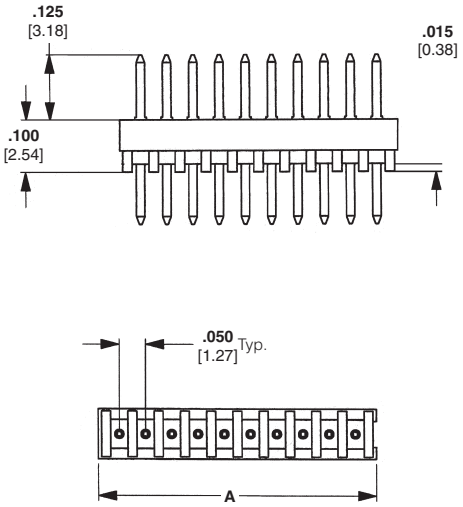
UK: 44-8706-080-208

Thru-Hole Headers—Unshrouded, .050 x .100 [1.27 x 2.54] Centerline, Board-to-Board (Continued)

Single Row, Vertical





Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

Contacts — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder posts, with entire contact underplated .000050 [0.00127] nickel

Related Product Data

Performance Specifications — page 63

Mateable Connectors — pages 37, 38, 49, & 50

Board-to-Board Spacing — page 63

PC Board Hole Layout — page 41

Technical Documents — page 64

Product Specification 108-1093

Application Specification 114-25031

No. of Pos.	Dimension A	Part Numbers
4	**.215** [5.46]	5-104178-1
6	**.315** [8.00]	5-104178-3
8	**.415** [10.54]	5-104178-5
10	**.515** [13.08]	5-104178-6
20	**1.015** [25.78]	6-104178-1
25	**1.265** [32.13]	6-104178-3

Note: All part numbers are RoHS compliant.

Catalog 1307819
Revised 8-08

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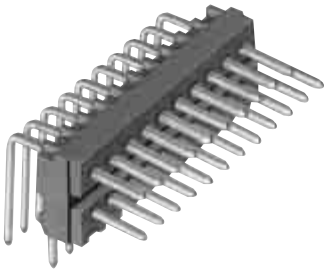
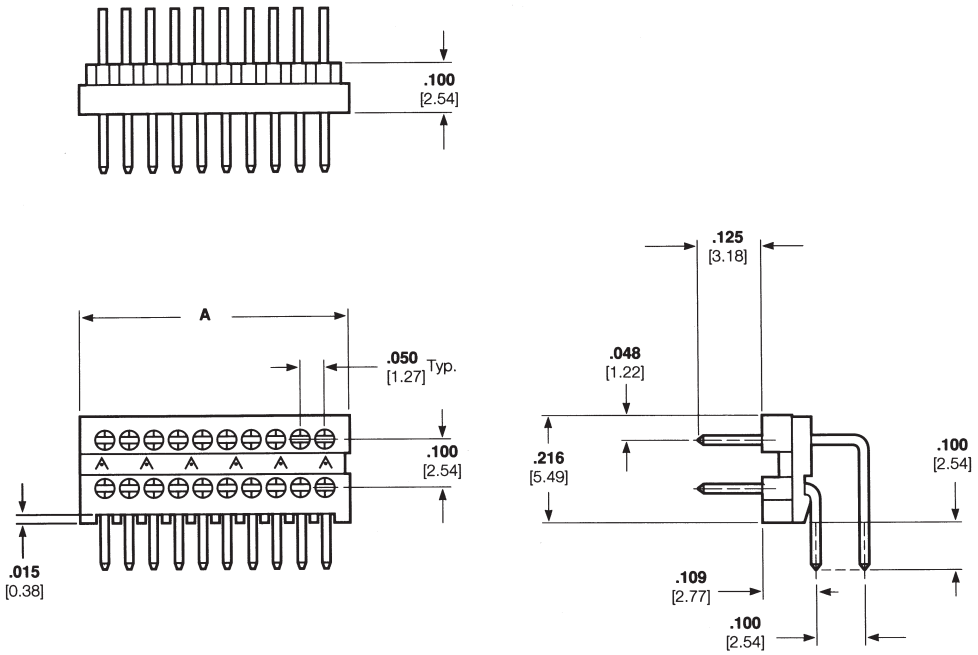
Thru-Hole Headers—Unshrouded, .050 x .100 [1.27 x 2.54] Centerline, Board-to-Board (Continued)

Double Row, Right-Angle





Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

Contacts — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder posts, with entire contact underplated .000050 [0.00127] nickel

Related Product Data

Performance Specifications — page 63

Mateable Connectors — pages 39, 40, 45, 51 & 52

PC Board Hole Layout — page 41

Technical Documents — page 64

Product Specification 108-1093

Application Specification 114-25031

No. of Pos.	Dimension A	Part Numbers
10	**.265** [6.73]	5-104118-3
20	**.515** [13.08]	5-104118-7
30	**.765** [19.43]	6-104118-0
40	**1.015** [25.78]	6-104118-2
50	**1.265** [32.13]	5-104118-1
60	**1.515** [38.48]	6-104118-4
80	**2.015** [51.18]	6-104118-6
100	**2.515** [63.88]	6-104118-7

Note: All part numbers are RoHS compliant.

Catalog 1307819
Revised 8-08

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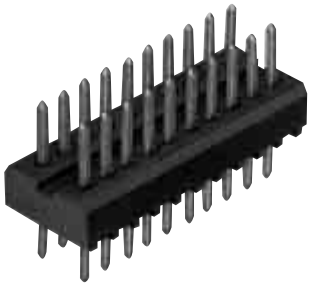
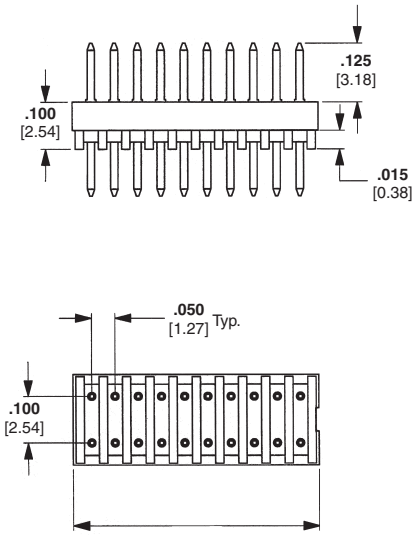
UK: 44-8706-080-208

Thru-Hole Headers—Unshrouded, .050 x .100 [1.27 x 2.54] Centerline, Board-to-Board (Continued)

Double Row, Vertical





Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

Contacts — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder posts, with entire contact underplated .000050 [0.00127] nickel

Related Product Data

Performance Characteristics — page 63

Mateable Connectors — pages 39, 40, 45, 51, & 52

Board-to-Board Spacing — page 63

PC Board Hole Layout — page 42

Technical Documents — page 64

Product Specification 108-1093

Application Specification 114-25031

No. of Pos.	Dimension A	Part Numbers
8	**.215** [5.46]	5-103916-3
20	**.515** [13.08]	5-103916-2
30	**.765** [19.43]	5-103916-9
36	**.915** [23.24]	6-103916-8
40	**1.015** [25.78]	6-103916-1
50	**1.265** [32.13]	6-103916-3
60	**1.515** [38.48]	6-103916-4
80	**2.015** [51.18]	6-103916-6
100	**2.515** [63.88]	6-103916-7

Note: All part numbers are RoHS compliant.

Catalog 1307819
Revised 8-08

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Dimensions are shown for reference purposes only. Specifications subject to change.

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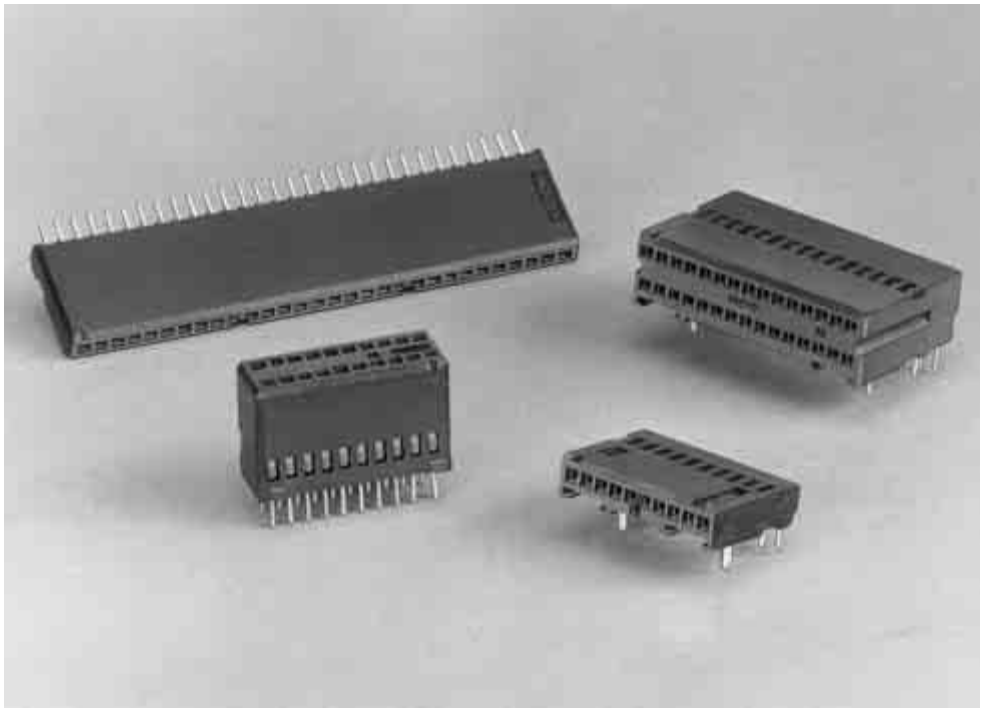
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

Thru-Hole Receptacles, .050 x .100 [1.27 x 2.54] Centerline, Board-to-Board

Product Facts

- High density; contacts spaced on .050 x .100 [1.27 x 2.54] centers
- Right-angle and vertical styles
- Single row; select sizes 5 thru 50 positions
- Double row; select sizes 10 thru 100 positions
- Contacts are selectively plated with gold
- Stand-offs for removal of solder flux



The AMPMODU System 50 thru-hole receptacles offer a wide variety of high density board-to-board connectors. The .050 [1.27] spacing between each contact provides an extremely dense interconnect package and results in a more efficient use of the printed circuit board space.

AMPMODU System 50 thru-hole receptacles are available in right-angle and vertical configurations and are composed of single and double row versions. The single row versions are available in select sizes of 5 thru 50 positions and double row in positions from 10 thru 100.

Receptacle contacts and mating .015 [0.38] square posts are formed from high conductivity copper alloy and are selectively plated with gold for higher performance and reliability. The receptacle housings are made of black thermoplastic, with a 94V-0 rating to withstand high temperatures of reflow soldering and incorporate stand-offs for free drainage of flux cleaning solutions.

Catalog 1307819
Revised 8-08

www.tycoelectronics.com

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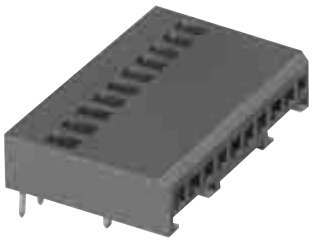
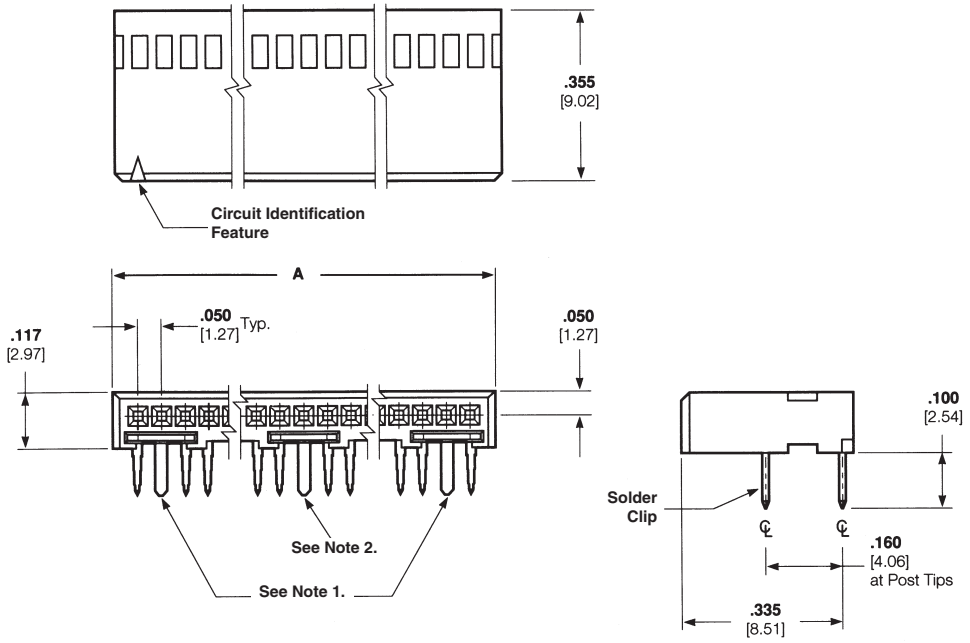
Thru-Hole Receptacles, .050 x .100 [1.27 x 2.54] Centerline, Board-to-Board (Continued)

Single Row, Right-Angle With Solder Clips





Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

Contacts — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder posts, with entire contact underplated .000050 [0.00127] nickel

Related Product Data

Performance Specifications — page 63

Mateable Connectors — pages 32 & 33

PC Board Hole Layout — page 41

Technical Documents — page 64

Product Specification 108-1093

Application Specification 114-25031

No. of Pos.	Dimension A	Part Numbers
10	**.544** [13.82]	5-104196-2
15	**.794** [20.17]	5-104196-4
20	**1.044** [26.52]	5-104196-5

Notes:

1. Solder Clips located as shown for 10 through 25 position receptacles.
2. Solder Clips located as shown for 5 and 25 position receptacles.

Note: All part numbers are RoHS compliant.

Catalog 1307819
Revised 8-08

www.tycoelectronics.com

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

Dimensions are shown for reference purposes only. Specifications subject to change.

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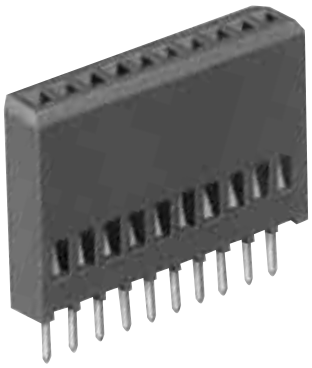
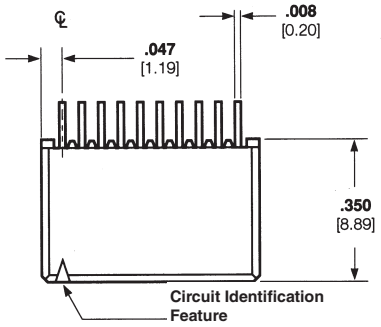
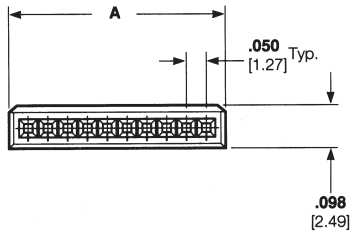
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

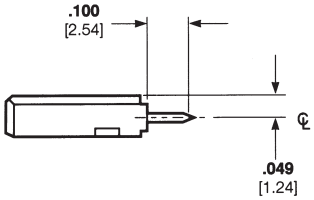
Thru-Hole Receptacles, .050 x .100 [1.27 x 2.54] Centerline, Board-to-Board (Continued)

Single Row, Vertical









Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

Contacts — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder posts, with entire contact underplated .000050 [0.00127] nickel

Related Product Data

Performance Specifications — page 63

Mateable Connectors — pages 27, 28, 32, & 33

Board-to-Board Spacing — page 63

PC Board Hole Layout — page 41

Technical Documents — page 64

Product Specification 108-1093

Application Specification 114-25031

No. of Pos.	Dimension A	Part Numbers
10	**.544** [13.82]	5-104192-2
12	**.644** [16.35]	5-104192-3
15	**.794** [20.17]	5-104192-4
20	**1.044** [26.52]	5-104192-5
30	**1.544** [39.22]	5-104192-7

Note: All part numbers are RoHS compliant.

Catalog 1307819
Revised 8-08

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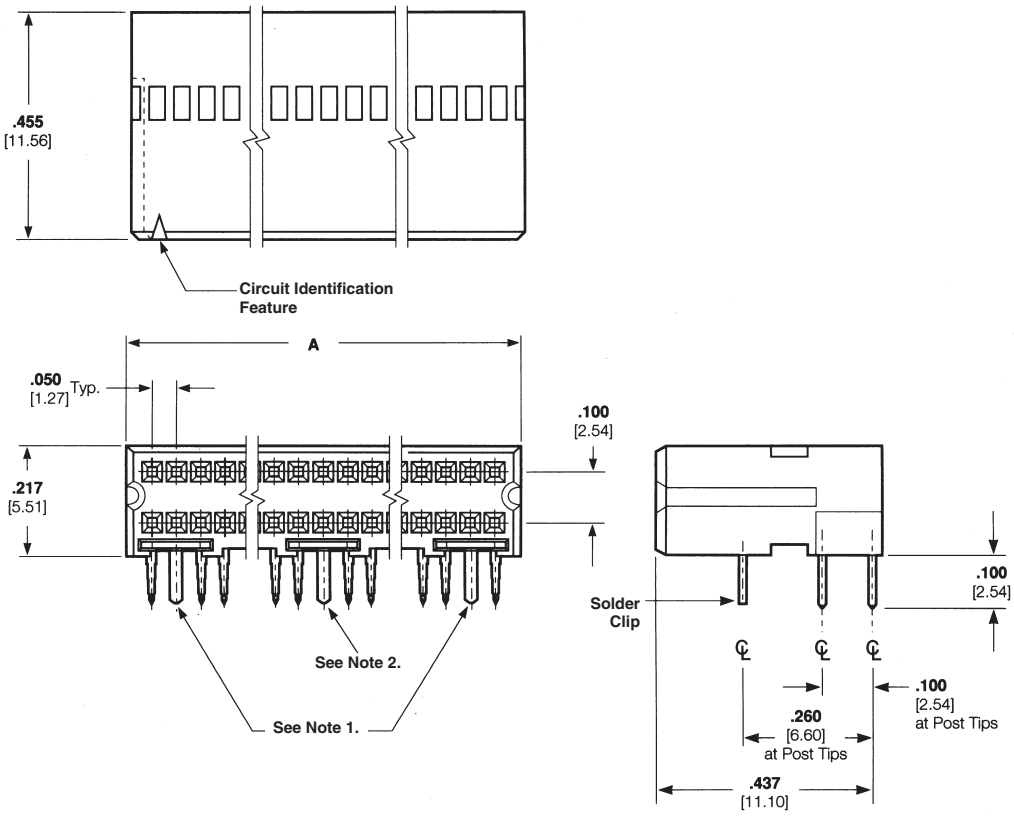
UK: 44-8706-080-208

Thru-Hole Receptacles, .050 x .100 [1.27 x 2.54] Centerline, Board-to-Board (Continued)

Double Row, Right-Angle



Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

Contacts — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder posts, with entire contact underplated .000050 [0.00127] nickel

Related Product Data

Performance Characteristics — page 63

Mateable Connectors — pages 31, 34 & 35

PC Board Hole Layout — page 41

Technical Documents — page 64

Product Specification 108-1093

Application Specification 114-25031

No. of Pos.	Dimension A	Part Numbers
10	**.294** [7.47]	5-103911-1
20	**.544** [13.82]	5-103911-2
30	**.794** [20.17]	5-103911-7
40	**1.044** [26.52]	5-103911-5
50	**1.294** [32.87]	5-103911-4
60	**1.544** [39.22]	5-103911-3
80	**2.044** [51.92]	5-103911-6
100	**2.544** [64.62]	5-103911-8

Notes:
1. Solder Clips located as shown for 20 through 100 position receptacles.
2. Solder Clips located as shown for 10, 60, 80 and 100 position receptacles.

Note: All part numbers are RoHS compliant.

Catalog 1307819
Revised 8-08

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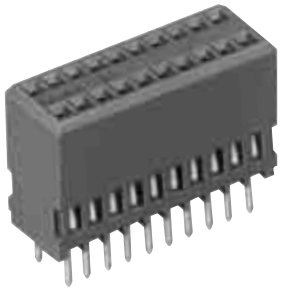
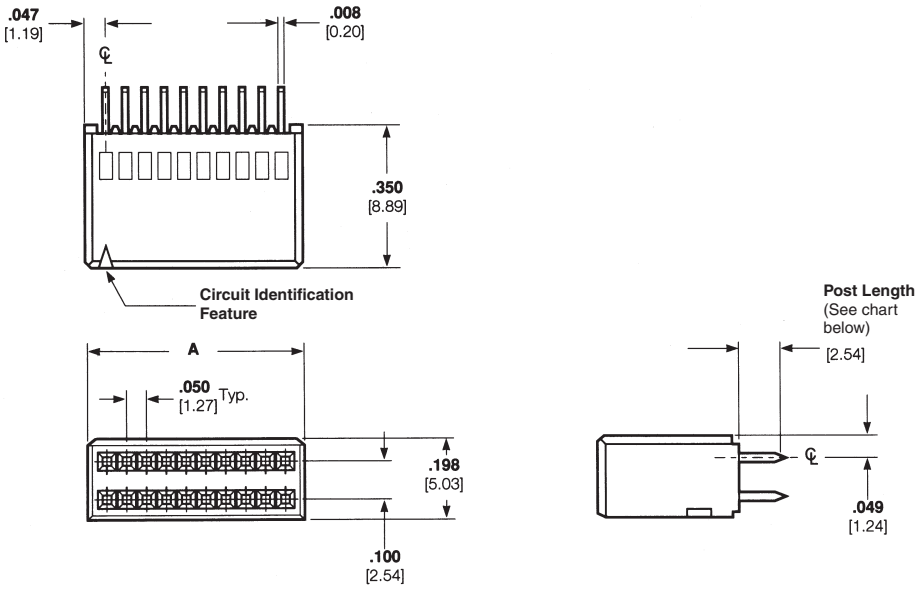
UK: 44-8706-080-208

Thru-Hole Receptacles, .050 x .100 [1.27 x 2.54] Centerline, Board-to-Board (Continued)

Double Row, Vertical





Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

Contacts — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder posts, with entire contact underplated .000050 [0.00127] nickel

Related Product Data

Performance Specifications — page 63

Mateable Connectors — pages 29, 30, 34, 35 & 44

Board-to-Board Spacing — page 63

PC Board Hole Layout — page 41

Technical Documents — page 64

Product Specification 108-1093

Application Specification 114-25031

No. of Pos.	Dimension A	Part Numbers Post Length	
		.100 [2.54]	.145 [3.68]
10	**.294** [7.47]	5-104078-3	—
20	**.544** [13.82]	5-104078-1	—
24	**.644** [16.36]	5-104078-9	—
30	**.794** [20.17]	5-104078-4	—
34	**.894** [22.71]	6-104078-0	—
40	**1.044** [26.52]	5-104078-2	—
50	**1.294** [32.87]	5-104078-5	5-104744-7
60	**1.544** [39.22]	5-104078-6	—
68	**1.744** [44.30]	6-104078-3	—
80	**2.044** [51.92]	5-104078-7	5-104744-4
100	**2.544** [64.62]	5-104078-8	5-104744-5

Note: All part numbers are RoHS compliant.

Catalog 1307819
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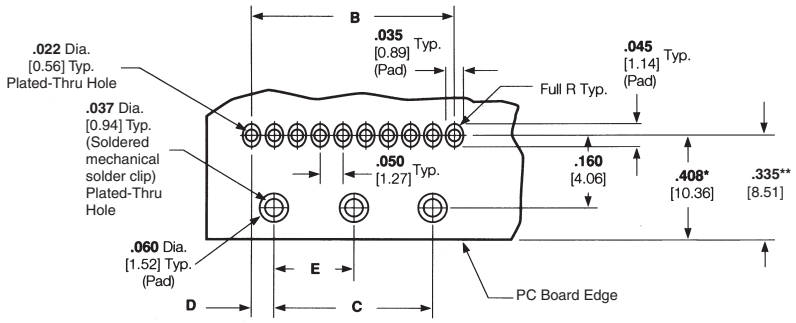
Recommended PC Board Hole Layouts, Thru-Hole Board-to-Board Connectors

Single Row, Right-Angle with Solder Clips

Note: Consult Tyco Electronics for customer drawings detailing tolerances.



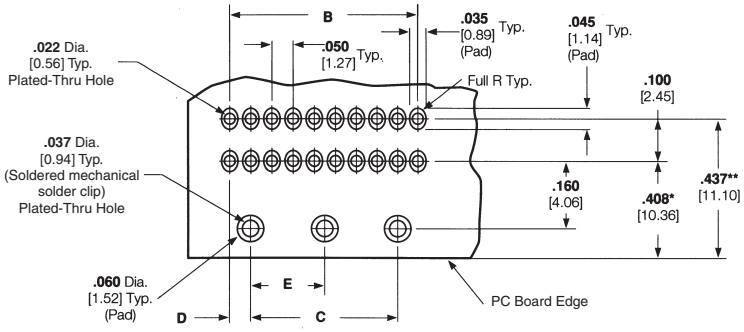
* This dimension is for Shrouded, Single Row Right-Angle Headers only.

** This dimension is for Single Row Right-Angle Receptacles only.

No. of Pos.	Dimensions			
	B	C	D	E
4	**.150** [3.81]	—	**.075** [1.91]	—
5	**.200** [5.08]	—	**.100** [2.54]	—
6	**.250** [6.35]	—	**.125** [3.18]	—
8	**.350** [8.89]	—	**.175** [4.45]	—
10	**.450** [11.43]	**.350** [8.89]	**.050** [1.27]	—
12	**.550** [13.97]	**.450** [11.43]	**.050** [1.27]	—
15	**.700** [17.78]	**.600** [15.24]	**.050** [1.27]	—
20	**.950** [24.13]	**.850** [21.59]	**.050** [1.27]	—
22	**1.050** [26.67]	**.950** [24.13]	**.050** [1.27]	—
25	**1.200** [30.48]	**1.100** [27.94]	**.050** [1.27]	—
28	**1.350** [34.29]	**1.250** [31.75]	**.050** [1.27]	**.625** [15.88]
30	**1.450** [36.83]	**1.350** [34.29]	**.050** [1.27]	**.675** [17.15]
36	**1.750** [44.45]	**1.650** [41.91]	**.050** [1.27]	**.825** [20.96]
40	**1.950** [49.53]	**1.850** [46.99]	**.050** [1.27]	**.925** [23.50]
45	**2.200** [55.88]	**2.100** [53.34]	**.050** [1.27]	**1.050** [26.67]
50	**2.450** [62.23]	**2.350** [59.69]	**.050** [1.27]	**1.175** [29.85]

Double Row, Right-Angle with Solder Clips

Note: Consult Tyco Electronics for customer drawings detailing tolerances.



* This dimension is for Shrouded, Double Row Right-Angle Headers only.

** This dimension is for Double Row Right-Angle Receptacles only.

No. of Pos.	Dimensions			
	B	C	D	E
10	**.200** [5.08]	—	**.100** [2.54]	—
20	**.450** [11.43]	**.350** [8.89]	**.050** [1.27]	—
24	**.550** [13.97]	**.450** [11.43]	**.050** [1.27]	—
26	**.600** [15.24]	**.500** [12.70]	**.050** [1.27]	—
30	**.700** [17.78]	**.600** [15.24]	**.050** [1.27]	—
34	**.800** [20.32]	**.700** [17.78]	**.050** [1.27]	—
40	**.950** [24.13]	**.850** [21.59]	**.050** [1.27]	—
50	**1.200** [30.48]	**1.100** [27.94]	**.050** [1.27]	—
60	**1.450** [36.83]	**1.350** [34.29]	**.050** [1.27]	**.675** [17.15]
68	**1.650** [41.91]	**1.550** [39.37]	**.050** [1.27]	**.775** [19.69]
72	**1.750** [44.45]	**1.650** [41.91]	**.050** [1.27]	**.825** [20.96]
80	**1.950** [49.53]	**1.850** [46.99]	**.050** [1.27]	**.925** [23.50]
100	**2.450** [62.23]	**2.350** [59.69]	**.050** [1.27]	**1.175** [29.85]

Catalog 1307819
Revised 8-08

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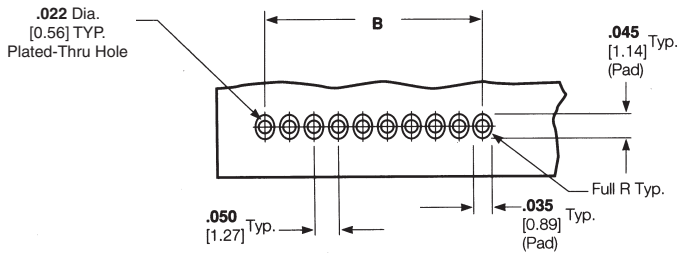
South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

Recommended PC Board Hole Layouts, Thru-Hole Board-to-Board Connectors (Continued)

Single Row Without Solder Clips

Note: Consult Tyco Electronics for customer drawings detailing tolerances.

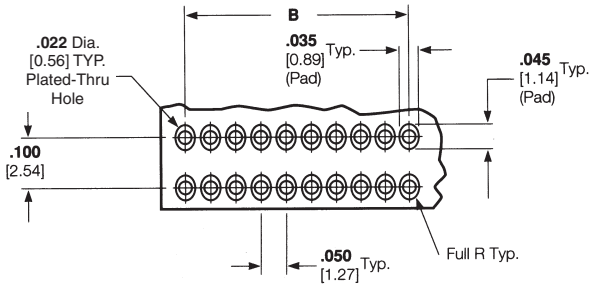


No. of Pos.	Dimension B
4	**.150** [3.81]
5	**.200** [5.08]
6	**.250** [6.35]
8	**.350** [8.89]
10	**.450** [11.43]
12	**.550** [13.97]
13	**.600** [15.24]
15	**.700** [17.78]

No. of Pos.	Dimension B
17	**.800** [20.32]
20	**.950** [24.13]
22	**1.050** [26.67]
25	**1.200** [30.48]
30	**1.450** [36.83]
31	**1.500** [38.10]
36	**1.750** [44.45]
40	**1.950** [49.53]
50	**2.450** [62.23]

Double Row Without Solder Clips

Note: Consult Tyco Electronics for customer drawings detailing tolerances.



No. of Pos.	Dimension B
8	**.150** [3.81]
10	**.200** [5.08]
12	**.250** [6.35]
14	**.300** [7.62]
16	**.350** [8.89]
20	**.450** [11.43]
24	**.550** [13.97]
26	**.600** [15.24]
30	**.700** [17.78]
34	**.800** [20.32]

No. of Pos.	Dimension B
36	**.850** [21.59]
40	**.950** [24.13]
44	**1.050** [26.67]
50	**1.200** [30.48]
60	**1.450** [36.83]
68	**1.650** [41.91]
72	**1.750** [44.45]
80	**1.950** [49.53]
100	**2.450** [62.23]

Catalog 1307819
Revised 8-08

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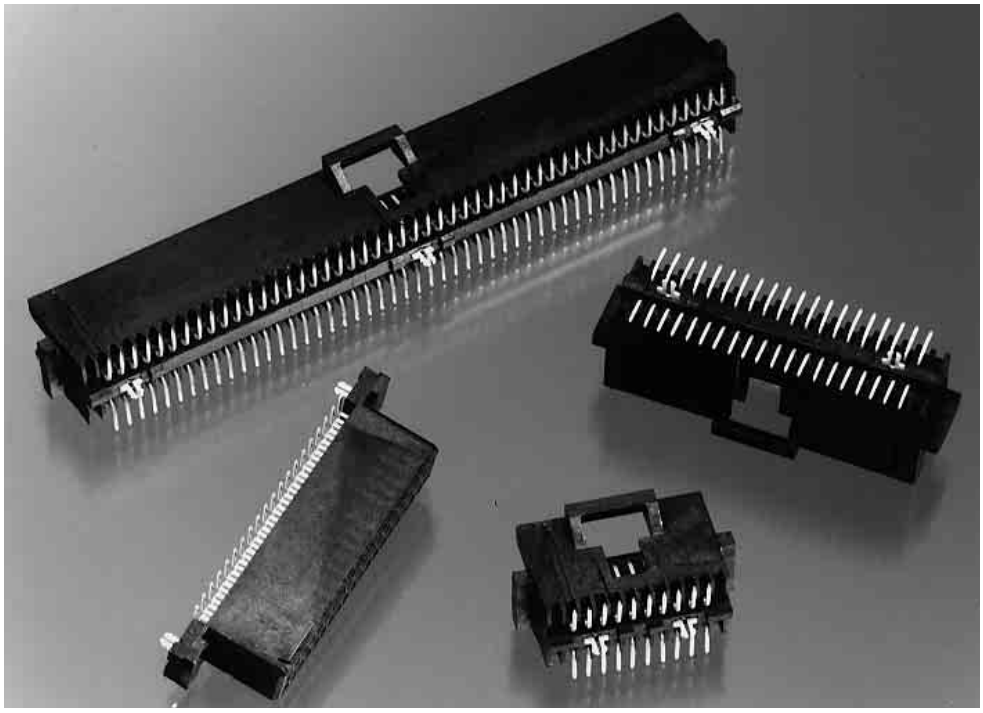
UK: 44-8706-080-208

Surface-Mount Connectors, .050 x .100 [1.27 x 2.54] Centerline, Board-to-Board

Product Facts

- **Surface-mount option for parallel board-to-board applications; completely intermateable with AMPMODU System 50 thru-hole board-to-board and cable-to-board systems**
- **Double row, vertical, shrouded header and receptacle assemblies**
- **Available in select sizes from 10 through 100 positions**
- **High Density; contacts spaced on .050 x .100 [1.27 x 2.54] centers; compact footprint**
- **Compatible with standard surface-mount processes**
- **Stand-offs for free drainage of flux cleaning solutions; visible solder joints for easy inspection**
- **Simple, low insertion-force holddown for process retention and long-term strain relief for solder joints**
- **Available in tape and reel packaging (with vacuum covers) for automatic placement.**



The high-density surface-mount connector is another mounting option in the AMPMODU System 50 connector family.

This surface-mount system is fully intermateable with the AMPMODU System 50 thru-hole and cable-to-board connectors.

Additionally, the design of the mating interface has not been changed, maintaining the same high reliability as the thru-hole product.

The surface-mount system includes double row, vertical, shrouded header and receptacle assemblies in select sizes from 10 through 100 positions. It meets the tight dimensional requirements of surface-mount technology. The simple, low insertion-force holddown provides both processing retention and long-term strain relief for the solder joints in the headers and receptacles.

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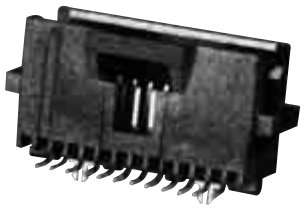
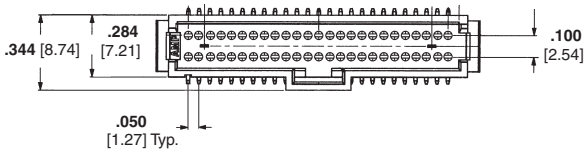
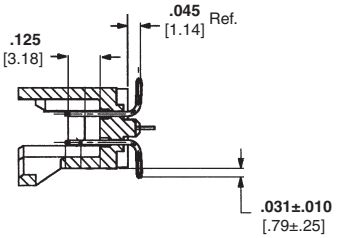
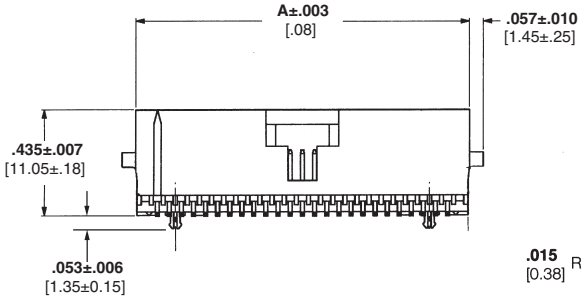
Surface-Mount Headers, .050 x .100 [1.27 x 2.54] Centerline, Board-to-Board

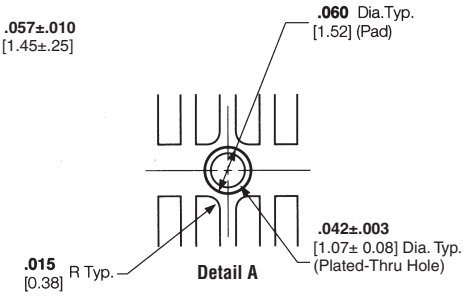
Double Row, Vertical











Material and Finish

Housing — Glass-filled thermoplastic, black, 94V-0 rated

Contacts — Copper alloy; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder tail, with entire contact underplated .000050 [0.00127] nickel

Holddown — Copper alloy, plated .000150 [0.00381] tin over .000050 [0.00127] nickel

Related Product Data

Performance Characteristics — page 63

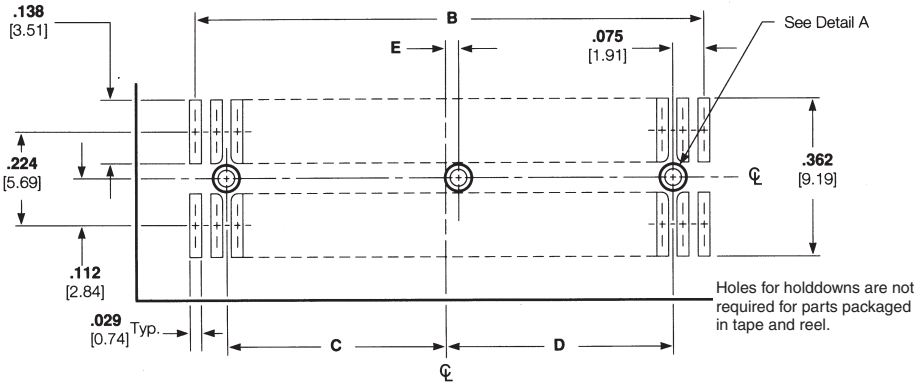
Mateable Connectors — pages 40, 45, 51, 52, & 56

Board-to-Board Spacing — page 63

Technical Documents — page 64

Product Specification 108-1093

Application Specification 114-25035



Recommended PC Board Layout

No. of Pos.	Dimensions					Part Numbers	
	A	B	C	D	E	Pkg in Tube	Pkg in Tape & Reel*
10	**.380** [9.65]	**.200** [5.08]	—	**.025** [0.64]	—	5-104549-1	5-147377-1
12	**.430** [10.92]	**.250** [6.35]	—	—	—	6-104549-1	—
20	**.630** [16.00]	**.450** [11.43]	**.150** [3.81]	**.150** [3.81]	—	5-104549-2	5-147377-2
24	**.730** [18.54]	**.550** [13.97]	**.200** [5.08]	**.200** [5.08]	—	5-104549-3	5-147377-9
30	**.880** [22.35]	**.700** [17.78]	**.275** [6.99]	**.275** [6.99]	—	5-104549-5	5-147377-3
40	**1.130** [28.70]	**.950** [24.13]	**.400** [10.16]	**.400** [10.16]	—	5-104549-6	5-147377-4
50	**1.380** [35.05]	**1.200** [30.48]	**.525** [13.34]	**.525** [13.34]	**.025** [0.64]	5-104549-7	5-147377-5
60	**1.630** [41.40]	**1.450** [36.83]	**.650** [16.51]	**.650** [16.51]	**.000**	5-104549-8	5-147377-6
80	**2.130** [54.10]	**1.950** [49.53]	**.900** [22.86]	**.900** [22.86]	**.000**	5-104549-9	5-147377-7
100	**2.630** [66.80]	**2.450** [62.23]	**1.150** [29.21]	**1.150** [29.21]	**.000**	6-104549-0	5-147377-8

*Parts packaged in tape and reel are without hold downs and include a vacuum pick and place cover

Note: All part numbers are RoHS compliant.

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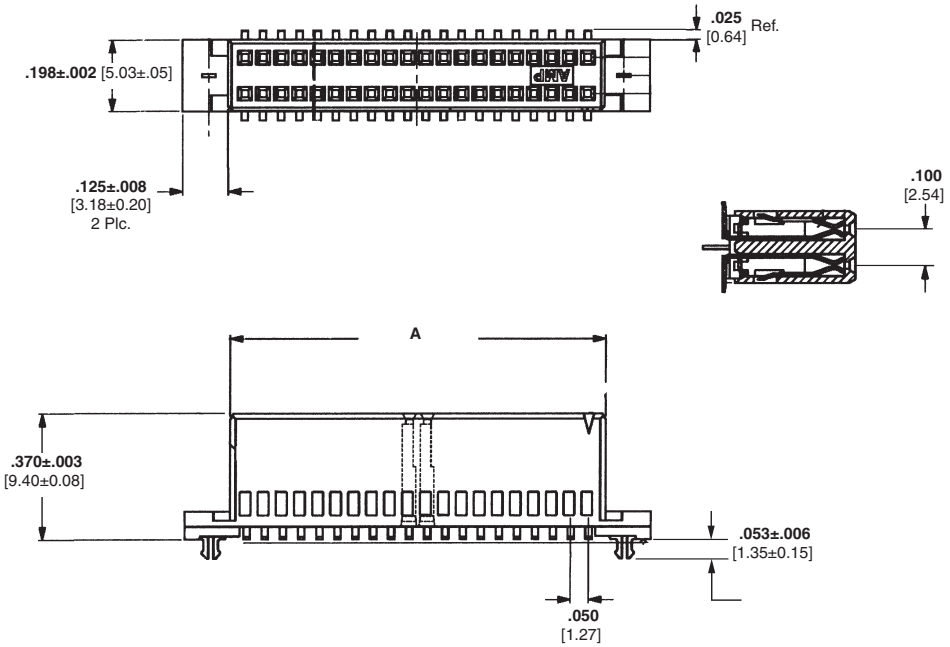
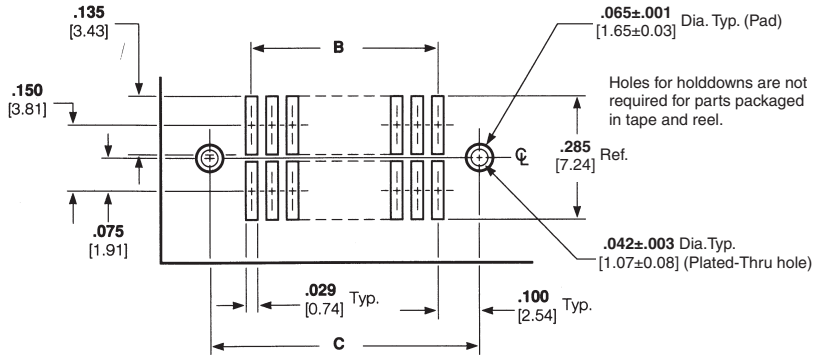
UK: 44-8706-080-208

Surface-Mount Receptacles, .050 x .100 [1.27 x 2.54] Centerline, Board-to-Board

Double Row, Vertical





Recommended PC Board Layout

Material and Finish

Housing — Glass-filled thermpolastic, black, 94V-0 rated

Contacts — Phosphor bronze; duplex plated .000030 [0.00076] gold in mating area, .000150 [0.00381] tin on solder tail, with entire contact underplated .000050 [0.00127] nickel

Holddown — Copper alloy; duplex plated .000150 [0.00381] tin over .000050 [0.00127] nickel

Related Product Data

Performance Characteristics — page 63

Mateable Connectors — pages 29, 30, 34, 35 & 44

Board-to-Board Spacing — page 63

Technical Documents — page 64

Product Specification 108-1093

Application Specification 114-25035

No. of Pos.	Dimensions			Part Numbers	
	A	B	C	Pkg in Tube	Pkg in Tape & Reel*
10	**.294** [7.47]	**.200** [5.08]	**.400** [10.16]	5-104550-1	5-147378-1
20	**.544** [13.82]	**.450** [11.43]	**.650** [16.51]	5-104550-2	5-147378-2
24	**.644** [16.36]	**.550** [13.97]	**.750** [19.05]	5-104550-3	5-147378-9
30	**.794** [20.17]	**.700** [17.78]	**.900** [22.86]	5-104550-4	5-147378-3
40	**1.044** [26.52]	**.950** [24.13]	**1.150** [29.21]	5-104550-5	5-147378-4
50	**1.294** [32.87]	**1.200** [30.48]	**1.400** [35.56]	5-104550-6	5-147378-5
60	**1.544** [39.22]	**1.450** [36.83]	**1.650** [41.91]	5-104550-7	5-147378-6
80	**2.044** [51.92]	**1.950** [49.53]	**2.150** [54.61]	5-104550-8	5-147378-7
100	**2.544** [64.62]	**2.450** [62.23]	**2.650** [67.31]	5-104550-9	5-147378-8

*Parts packaged in tape and reel are without hold downs and include a vacuum pick and place cover

Note: All part numbers are RoHS compliant.

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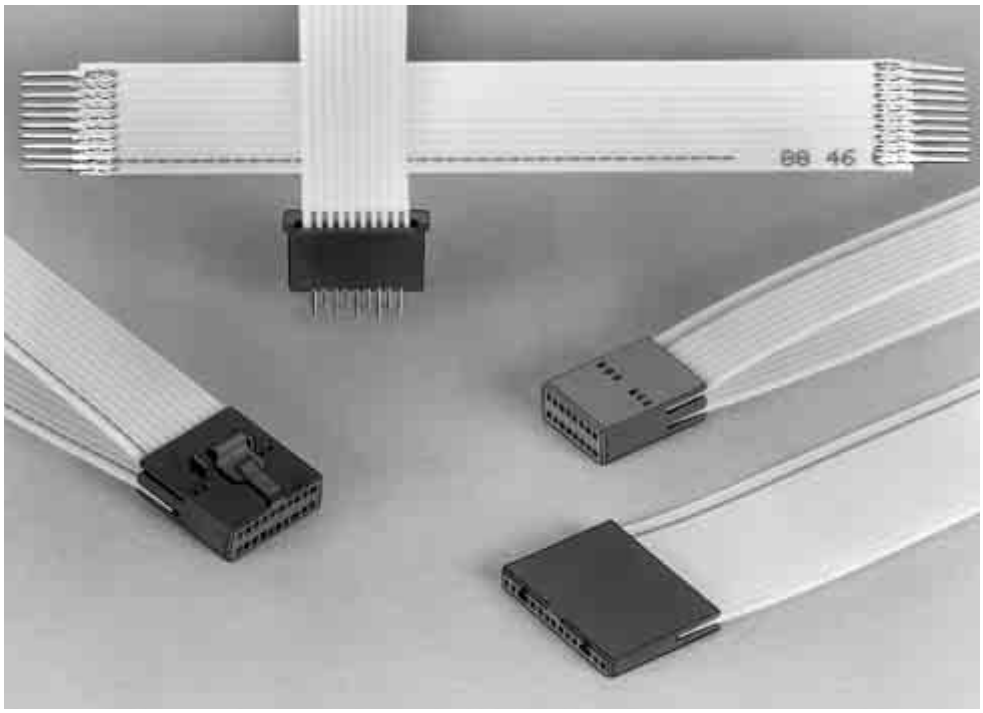
UK: 44-8706-080-208

Cable-to-Board Connectors, .050 x .100 [1.27 x 2.54] Centerline FFC Cable

Product Facts

- Signal application only, 1.5 amperes maximum single circuit
- Single or double row connectors
- Terminates flexible flat conductor cable and flexible etched circuitry
- Shielded cable provides for customizing
- Center latch housing providing positive latching



The cable-to-board .050 [1.27] center FFC receptacle connectors are part of the AMPMODU System 50 family for terminating flexible flat conductor cable and flexible etched circuitry.

The FFC receptacle uses a dual beam contact with 30 microinches of gold plating. The FFC receptacle connectors have an integral latch for positive locking to shrouded mating headers.

Flexible flat conductor cable is a planar parallel conductor cable. It can be used as a one-to-one connector or as a complex harness, allowing split-outs and special routing. The cable is comprised of .026 [0.66] wide x .003 [0.08] thick conductors made of copper per QQ-C-502 and insulated with a flame retardant polyester film.

The FFC contacts are available in receptacle and solder tab. Receptacle contacts are made of phosphor bronze with a finish of plated gold duplex, while the solder tab contacts are finished in a bright tin-lead overall.

The complete product line provides solder tabs for board mounting at low cost and custom shielding of the cable.

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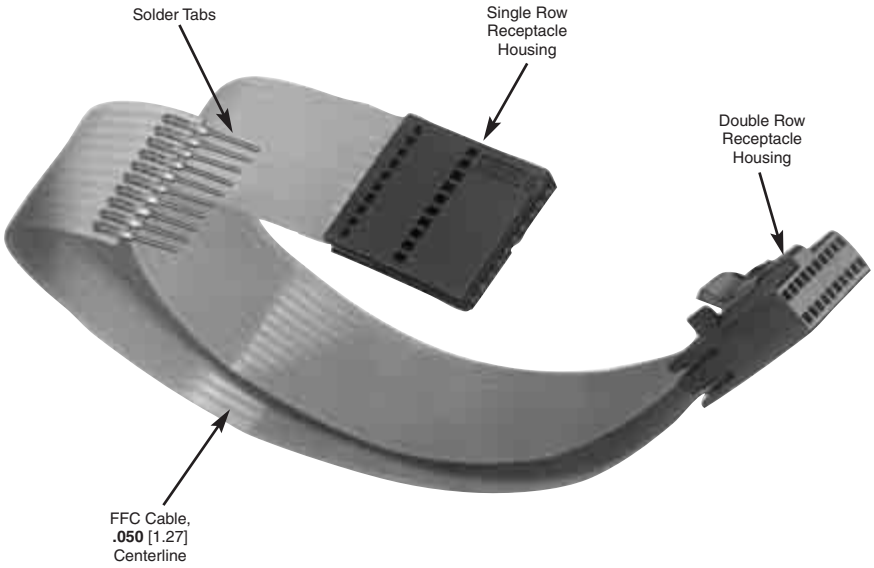
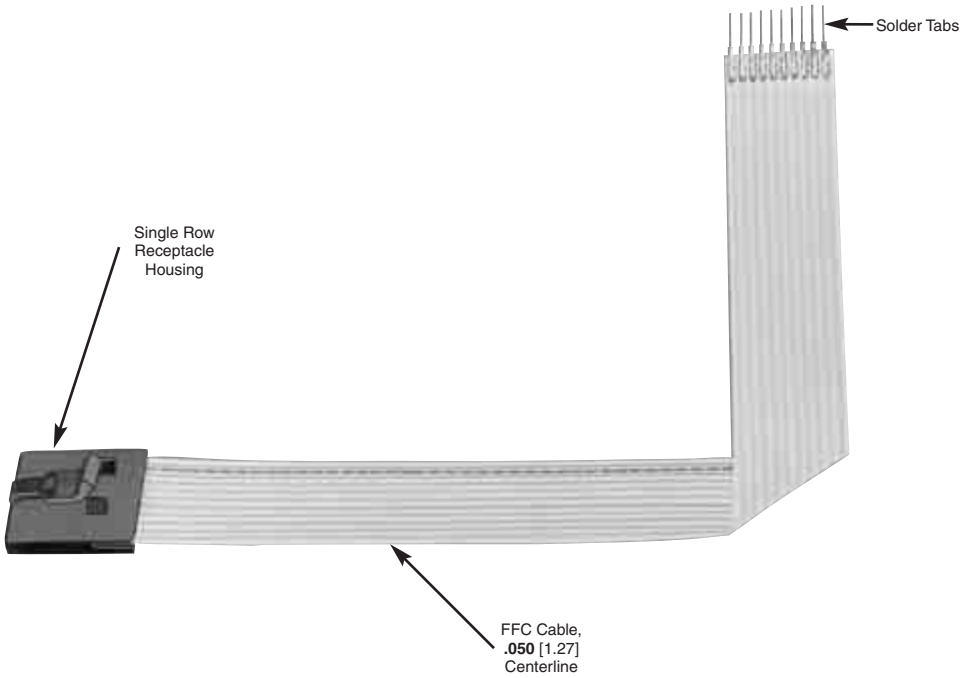
Cable-to-Board Connectors, .050 x .100 [1.27 x 2.54] Centerline FFC Cable] (Continued)

Custom Designed Cable Assemblies

Tyco Electronics can supply customized flexible flat conductor cable assemblies using the components shown on pages 48 thru 54. Typical examples of these cable assemblies are shown to the right.

And, to meet the internal shielding requirements of today's complex electronic equipment, custom designed shielded FFC cable assemblies can be made to your specific specifications.





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FFC Contacts, .050 x .100 [1.27 x 2.54] Centerline

Receptacle Strip

Solder Tab Strip

Material and Finish

Phosphor bronze; plated gold duplex or bright tin-lead overall (See chart.)

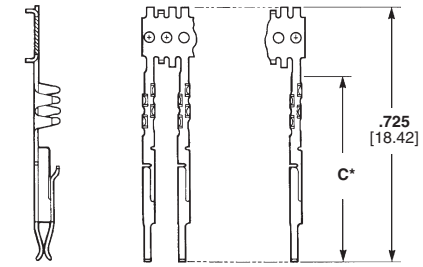
Related Product Data

Performance Characteristics — page 63
Housings — pages 49-52
Application Tooling — page 60-62

Technical Documents — page 64

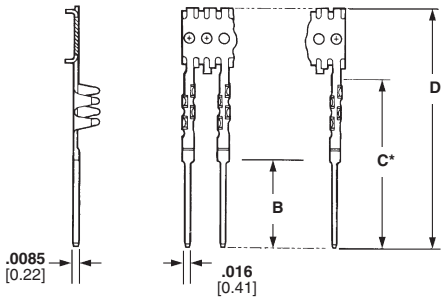
Product Specification 108-16022
Application Specification 114-16008

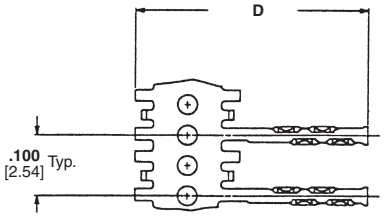
Receptacle

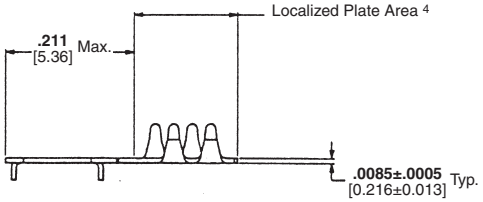


Accepts .015 [0.38] Sq. Post
.125-.350 [3.18-8.89] Long

Solder Tab







Type	Config.	Part No./ Finish	Dimensions B	Dimensions C*	Dimensions D	Application Tooling Part Numbers: Machine	Application Tooling Part Numbers: Machine With Programmer
Receptacle	Strip	1-487547-1[1]	—	**.520** [13.21]	**.725** [18.42]		
Solder Tab	Strip	487923-4[2]	**.245** [6.22]	**.480** [12.19]	**.685** [17.40]		
	Strip	487923-5[3]	**.245** [6.22]	**.480** [12.19]	**.685** [17.40]	224910-4 (120 V)	318619-4 (120 V)
	Strip	487940-4[2]	**.110** [2.79]	**.345** [8.76]	**.550** [13.97]	224910-6 (240 V)	318619-6 (240 V)
Contact Splice	Strip	487941-4[4]	—	—	**.385** [9.78]		
Receptacle	Strip	1-487547-2[5]	—	**.520** [13.21]	**.725** [18.42]		

[1]Duplex plated .000030 [0.00076] gold on mating area, .000100 [0.00254] min. bright tin in crimp area, with entire contact underplated .000050 [0.00127] min. nickel.
[2]Plated .000100 [0.00254] min. tin over .000050 [0.00127] min. nickel.
[3]Duplex plated .000015 [0.00038] gold on solder tab end, .000100 [0.00254] min. bright tin in crimp area, with entire contact underplated .000050 [0.00127] min. nickel.
[4]Plated .000150 [3.81µm] min. bright tin over .000050 [1.27µm] min. nickel.
[5]Duplex Plated .000150 [0.00038] gold on mating area, .000100 [0.00254] min bright tin in crimp area, with entire contact underplated .000050 [0.00127] min. nickel.
*After cut-off from carrier strip.

Note: All part numbers are RoHS compliant.

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Single Row Receptacle Housings, .050 x .100 [1.27 x 2.54] Centerline, Cable-to-Board

Plain Style Housings

Latch Style Housings

Material and Finish

Housing — Black thermoplastic, flame retardant, 94V-0 rated

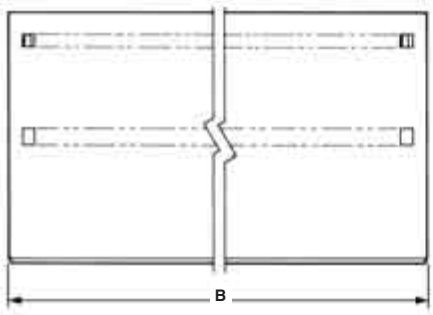
Related Product Data

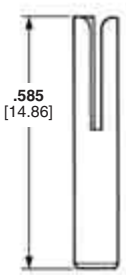
Performance Characteristics — page 63
Receptacle Contacts — page 48
Mateable Headers — pages 27, 28, 32 & 33

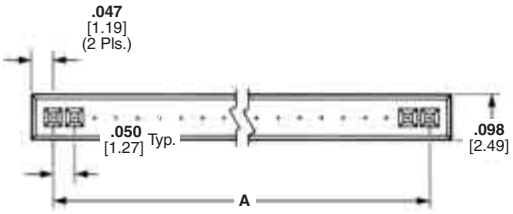
Technical Documents — page 64

Product Specification 108-16022
Application Specification 114-16008

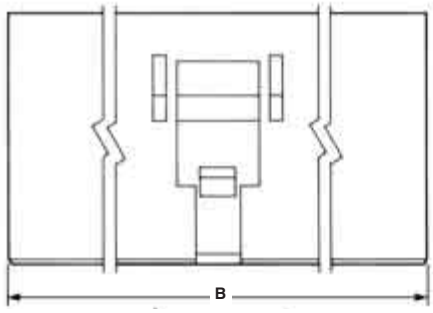
Plain Style Housings

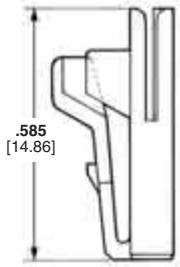


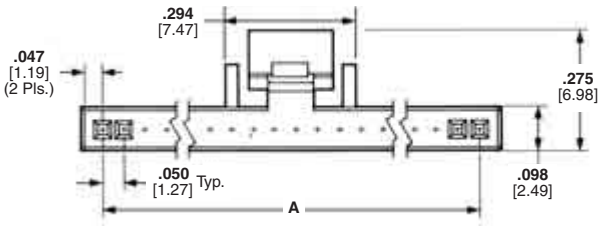




Latch Style Housings







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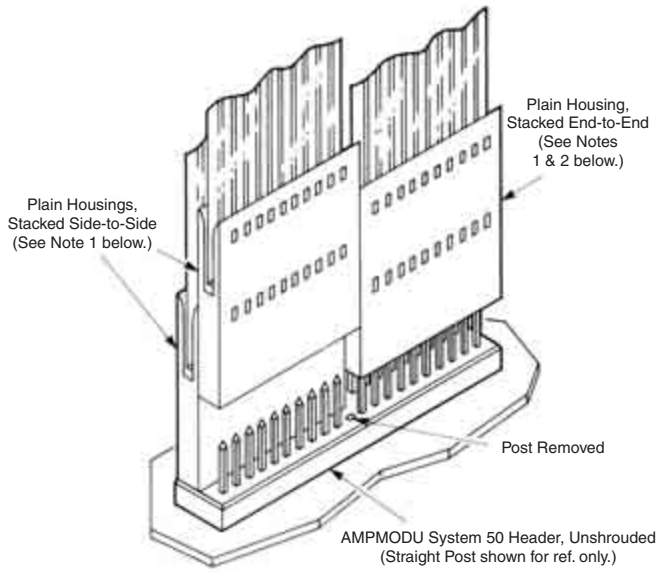
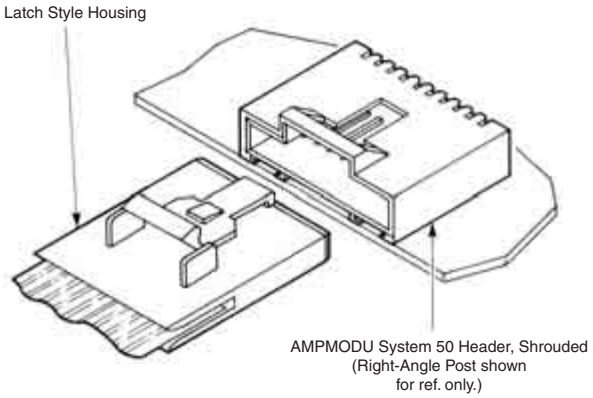
Single Row Receptacle Housings, .050 x .100 [1.27 x 2.54] Centerline, Cable-to-Board (Continued)

No. of Pos.	Dimensions		Part Numbers	
	A	B	Plain Receptacle Housing	Latch Style Receptacle Housing
4	**.150** [3.18]	**.244** [6.20]	487544-1	487545-1
5	**.200** [5.08]	**.294** [7.47]	487544-2	487545-2
6	**.250** [6.35]	**.344** [8.74]	487544-3	487545-3
7	**.300** [7.62]	**.394** [10.01]	487544-4	487545-4
8	**.350** [8.89]	**.444** [11.28]	487544-5	487545-5
10	**.450** [11.43]	**.544** [13.82]	487544-7	487545-7
12	**.550** [13.97]	**.644** [16.36]	487544-9	487545-9
13	**.600** [15.24]	**.694** [17.63]	—	1-487545-0
15	**.700** [17.78]	**.794** [20.17]	1-487544-2	1-487545-2
16	**.750** [19.05]	**.844** [21.44]	1-487544-3	—
17	**.800** [20.32]	**.894** [22.71]	1-487544-4	1-487545-4
20	**.950** [24.13]	**1.044** [26.52]	1-487544-7	1-487545-7
22	**1.050** [26.67]	**1.144** [29.06]	1-487544-9	1-487545-9
25	**1.200** [30.48]	**1.294** [32.87]	2-487544-2	2-487545-2
26	**1.250** [31.75]	**1.343** [34.11]	—	2-487545-3
28	**1.350** [34.29]	**1.443** [36.65]	—	2-487545-5
30	**1.450** [36.83]	**1.544** [39.22]	—	2-487545-7
36	**1.750** [44.45]	**1.844** [46.84]	3-487544-3	3-487545-3
40	**1.950** [49.53]	**2.044** [51.92]	—	3-487545-7
45	**2.200** [55.88]	**2.294** [58.27]	—	4-487545-2
50	**2.450** [62.23]	**2.544** [64.62]	4-487544-7	4-487545-7

Note: Other sizes of receptacle housings (plain and latch style) can be made available, consult Tyco Electronics.





Notes: 1. Plain housings are side-to-side stackable on either straight or right-angle posted, unshrouded AMPMODU System 50 headers.
2. For end-to-end stacking, the posts located between the adjoining housings must be removed to provide housing end clearance.

Typical Cable-to-Board Application of Plain Receptacle Housing

Typical Cable-to-Board Application of Latch Style Receptacle Housing

Note: All part numbers are RoHS compliant.

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Double Row Receptacle Housings, .050 x .100 [1.27 x 2.54] Centerline, Cable-to-Board

Plain Style Housings

Latch Style Housings

Material

Black thermoplastic, flame retardant, 94V-0 rated

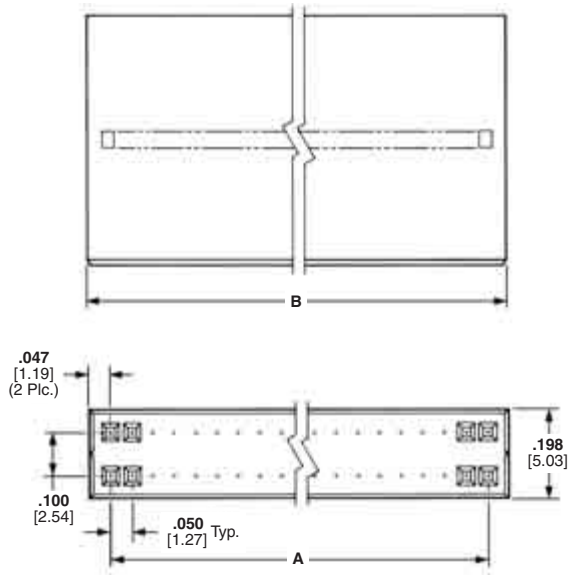
Related Product Data

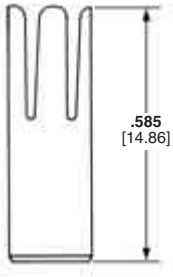
Performance Characteristics — page 63
Receptacle Contacts — page 48
Mateable Headers — pages 29, 30, 34, 35, & 44

Technical Documents — page 64

Product Specification 108-16022
Application Specification 114-16008

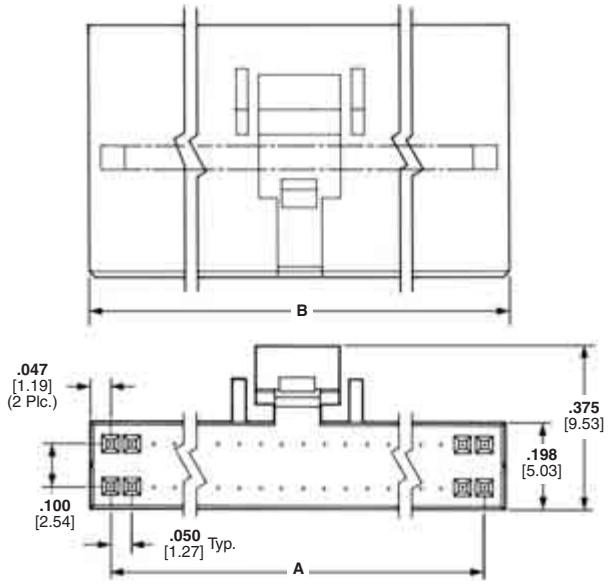
Plain Style Housings

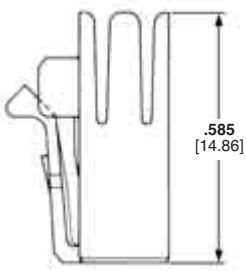




Plain

Latch Style Housings





Latch

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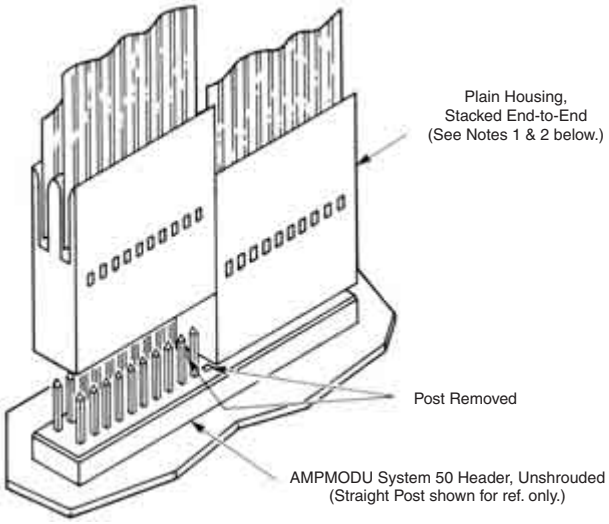
UK: 44-8706-080-208

Double Row Receptacle Housings, .050 x .100 [1.27 x 2.54] Centerline, Cable-to-Board (Continued)

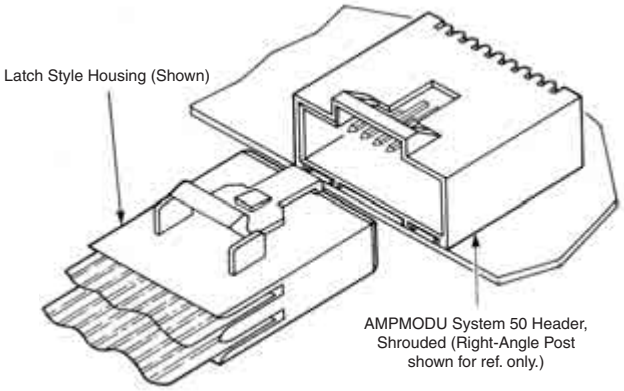
No. of Pos.	Dimensions A	Dimensions B	Plain Housing Part Numbers	Latch Style Housing Part Numbers
8	**.150** [3.81]	**.247** [6.27]	487938-8	487937-8
10	**.200** [5.08]	**.297** [7.54]	1-487938-0	1-487937-0
12	**.250** [6.35]	**.374** [8.81]	1-487938-2	1-487937-2
14	**.300** [7.62]	**.397** [10.08]	1-487938-4	1-487937-4
16	**.350** [.889]	**.447** [11.35]	1-487938-6	1-487937-6
20	**.450** [11.43]	**.547** [13.89]	2-487938-0	2-487937-0
24	**.550** [13.97]	**.647** [16.43]	2-487938-4	2-487937-4
26	**.600** [15.24]	**.697** [17.7]	2-487938-6	2-487937-6
30	**.700** [17.78]	**.797** [20.24]	3-487938-0	3-487937-0
34	**.800** [20.32]	**.897** [22.78]	3-487938-4	3-487937-4
40	**.950** [24.13]	**1.047** [26.59]	4-487938-0	4-487937-0
44	**1.050** [26.67]	**1.147** [29.13]	4-487938-4	4-487937-4
50	**1.200** [30.48]	**1.297** [39.94]	5-487938-0	5-487937-0
60	**1.450** [36.83]	**1.547** [39.29]	—	6-487937-0
72	**1.750** [44.45]	**1.847** [46.91]	7-487938-2	7-487937-2
80	**1.950** [49.53]	**2.047** [51.99]	8-487938-0	8-487937-0
100	**2.450** [62.23]	**2.547** [64.69]	487938-1	487937-1

Note: Other sizes of receptacle housings, up to 120 positions, can be made available, consult Tyco Electronics.



Notes: 1. Plain housings are end-to-end stackable on either straight or right-angle posted, unshrouded AMPMODU System 50 headers.
2. For end-to-end stacking, the two posts located between the adjoining housings must be removed to provide housing end clearance.

Typical Cable-to-Board Application of Plain Receptacle Housing



Typical Cable-to-Board Application of Latch Style Receptacle Housing

Note: All part numbers are RoHS compliant.

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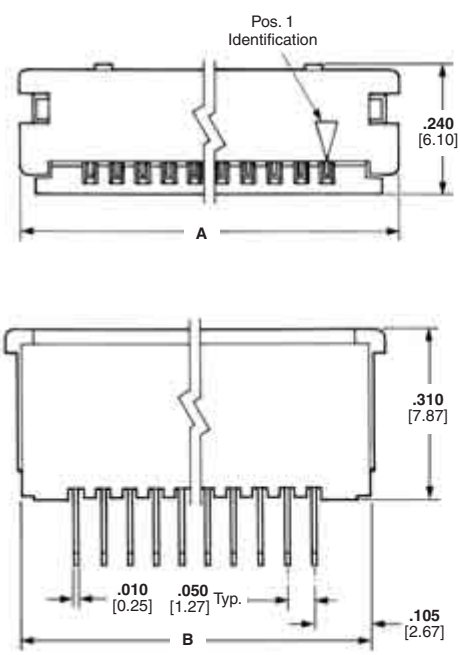
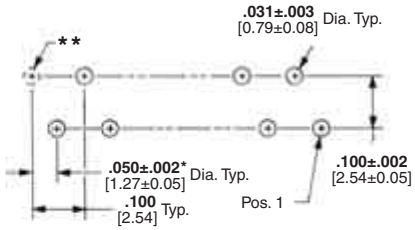
ZIF-Line Connectors, .050 x .100 [1.27 x 2.54] Centerline, Cable-to-Board

Vertical Cable Entry



Note: ZIF-Line connector illustrated above with cover in closed position.



Recommended Mounting Hole Pattern

*±.002 [±0.05] tolerance not to accumulate within one mounting hole pattern.

**This mounting hole required for even-numbered connector sizes only.

Material and Finish

Housing and Cover — Black thermoplastic, flame retardant, 94V-0 rated

Contacts — Phosphor bronze, plated .000150 [0.00381] min. bright tin over .000050 [0.00127] min. nickel on entire contact

Performance Characteristic

Contact Current Rating— 1 ampere†

†1 ampere rating is for single circuit. Multiple circuits, ambient temperature and conductor size affect current carrying capacity.

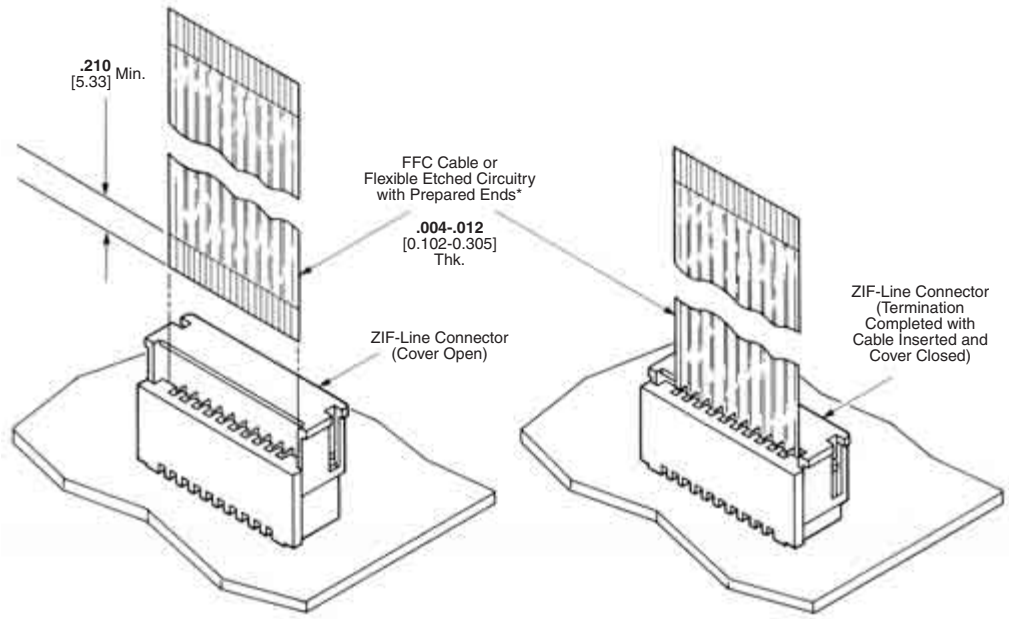
Related Product Data

FFC Cable (with Tin-Plated Prepared Ends) — Consult Tyco Electronics.

Technical Documents — page 64

Product Specification 108-16025

Application Specification 114-16014



*FFC cable with tin-plated prepared ends can be made available, consult Tyco Electronics.

Note: Special preparation of cable is required, refer to Tyco Electronics Application Specification No. 114-16014.

Typical Flexible Flat Conductor Cable-to-Board Application

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ZIF-Line Connectors, .050 x .100 [1.27 x 2.54] Centerline, Cable-to-Board (Continued)

No. of Pos.	Dimensions		Connector Part Numbers
	A	B	
5	**.470** [11.94]	**.410** [10.41]	5-487576-0
6	**.520** [13.21]	**.460** [11.68]	5-487576-1
7	**.570** [14.48]	**.510** [12.95]	4-487576-8
8	**.620** [15.75]	**.560** [14.22]	4-487576-9
9	**.670** [17.02]	**.610** [15.49]	487576-1
10	**.720** [18.29]	**.660** [16.76]	487576-2
11	**.770** [19.56]	**.710** [18.03]	487576-3
12	**.820** [20.83]	**.760** [19.30]	487576-4
13	**.870** [22.10]	**.810** [20.57]	487576-5
14	**.920** [23.37]	**.860** [21.84]	487576-6
15	**.970** [24.64]	**.910** [23.11]	487576-7
16	**1.020** [25.91]	**.960** [24.38]	487576-8
17	**1.070** [27.18]	**1.010** [25.65]	487576-9
18	**1.120** [28.45]	**1.060** [26.92]	1-487576-0
19	**1.170** [29.72]	**1.110** [28.19]	1-487576-1
20	**1.220** [30.99]	**1.160** [29.46]	1-487576-2
21	**1.270** [32.26]	**1.210** [30.73]	1-487576-3
22	**1.320** [33.53]	**1.260** [32.00]	1-487576-4
23	**1.370** [34.80]	**1.310** [33.27]	1-487576-5
24	**1.420** [36.07]	**1.360** [34.54]	1-487576-6
25	**1.470** [37.34]	**1.410** [35.81]	1-487576-7
26	**1.520** [38.61]	**1.460** [37.08]	1-487576-8
27	**1.570** [39.88]	**1.510** [38.35]	1-487576-9
28	**1.620** [41.15]	**1.560** [39.62]	2-487576-0
29	**1.670** [42.42]	**1.610** [40.89]	2-487576-1
30	**1.720** [43.69]	**1.660** [42.16]	2-487576-2

No. of Pos.	Dimensions		Connector Part Numbers
	A	B	
31	**1.770** [44.96]	**1.710** [43.43]	2-487576-3
32	**1.820** [46.23]	**1.760** [44.70]	2-487576-4
33	**1.870** [47.50]	**1.810** [45.97]	2-487576-5
34	**1.920** [48.77]	**1.860** [47.24]	2-487576-6
35	**1.970** [50.04]	**1.910** [48.51]	2-487576-7
36	**2.020** [51.31]	**1.960** [49.78]	2-487576-8
37	**2.070** [52.58]	**2.010** [51.05]	2-487576-9
38	**2.120** [53.85]	**2.060** [52.32]	3-487576-0
39	**2.170** [55.12]	**2.110** [53.59]	3-487576-1
40	**2.220** [56.39]	**2.160** [54.86]	3-487576-2
41	**2.270** [57.66]	**2.210** [56.13]	3-487576-3
42	**2.320** [58.93]	**2.260** [57.40]	3-487576-4
43	**2.370** [60.20]	**2.310** [58.67]	3-487576-5
44	**2.420** [61.47]	**2.360** [59.94]	3-487576-6
45	**2.470** [62.74]	**2.410** [61.21]	3-487576-7
46	**2.520** [64.01]	**2.460** [62.48]	3-487576-8
47	**2.570** [65.28]	**2.510** [63.75]	3-487576-9
48	**2.620** [66.55]	**2.560** [65.02]	4-487576-0
49	**2.670** [67.82]	**2.610** [66.29]	4-487576-1
50	**2.720** [69.09]	**2.660** [67.56]	4-487576-2
51	**2.770** [70.36]	**2.710** [68.83]	4-487576-3
52	**2.820** [71.63]	**2.760** [70.10]	4-487576-4
53	**2.870** [72.90]	**2.810** [71.37]	4-487576-5
54	**2.920** [74.17]	**2.860** [72.64]	4-487576-6
55	**2.970** [75.44]	**2.910** [73.91]	4-487576-7

Note: All part numbers are RoHS compliant.

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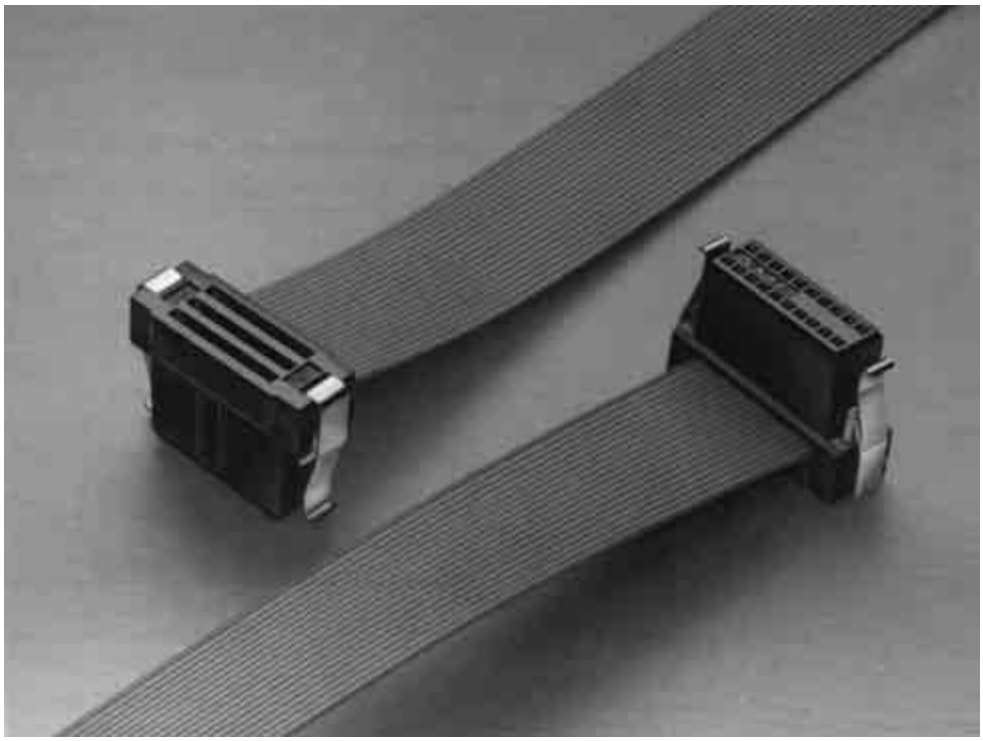
Cable-to-Board Connectors, .050 x .100 [1.27 x 2.54] Centerline, Ribbon Cable, System 50

Product Facts

- **Preassembled housing and cover**
- **One step termination**
- **End and daisy chain termination**
- **Positive end latching of connector to shrouded headers**
- **Terminates 30 AWG [0.05 mm^2] solid or stranded and 32 AWG [0.03 mm^2]* stranded .025 [0.64] centerline ribbon cable with PVC insulation**
- **0.5 ampere current rating (limited by cable)**



The AMP-LATCH System 50 Ribbon Cable connector is a receptacle connector that will terminate ribbon cable on .025 [0.64] centerlines. It is available in select sizes from 10 to 100 positions and will accommodate 30 AWG [0.05 mm^2] solid or stranded and 32 AWG [0.03 mm^2] stranded conductors, with PVC cable insulation.

The housing and cover (black) have a 94V-0 rating. A copper alloy single mating beam contact provides the interconnect between the conductor and the .015 [0.38] square posts on the .050 x .100 [1.27 x 2.54] grid. The contacts are plated with 30 gold duplex plating. The latching feature is located on the receptacle, not the header, and saves board space and eliminates future problems of “latch height compatibility.”

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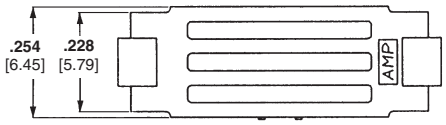
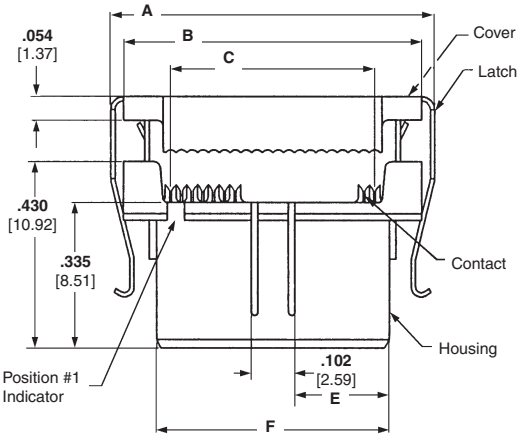
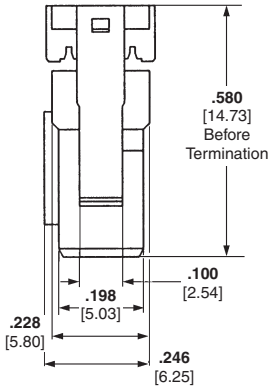
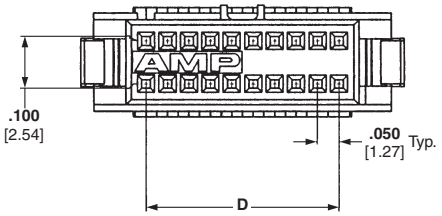
Double Row Receptacles, .050 x .100 [1.27 x 2.54] Centerline, Cable-to-Board, Ribbon Cable, System 50









Material and Finish

Housing — Black thermoplastic, 94V-0 rated

Latches — Stainless steel

Contacts — Copper alloy, plated gold over nickel with tin in termination area

Related Product Data

Performance Characteristics — page 63

Mateable Headers — pages 29, 30, 34, 35 & 44

Application Tooling — page 60-62

Mates with Posts — .015 [0.38] square, .125 [3.18] long, on.050 x .100 [1.27 x 2.54] grid

Technical Documents — page 64

Product Specification 108-1109

Application Specification 114-25029

No. of Pos.	Dimensions A	B	C	D	E	F	Part Numbers
10	**.510** [12.95]	**.445** [11.30]	**.225** [5.72]	**.200** [5.08]	**.096** [2.44]	**.294** [7.47]	2-111196-5
14	**.610** [15.49]	**.545** [13.84]	**.325** [8.26]	**.300** [7.62]	**.146** [3.71]	**.394** [10.01]	2-111196-6
16	**.660** [16.76]	**.595** [15.11]	**.375** [9.52]	**.350** [8.89]	**.171** [4.34]	**.444** [11.28]	2-111196-7
20	**.760** [19.30]	**.695** [17.65]	**.475** [12.07]	**.450** [11.43]	**.221** [5.61]	**.544** [13.82]	1-111196-8
24	**.860** [20.32]	**.795** [20.19]	**.575** [14.61]	**.550** [13.97]	**.271** [6.88]	**.644** [16.36]	2-111196-8
26	**.910** [23.11]	**.845** [21.46]	**.625** [15.88]	**.600** [15.24]	**.296** [7.52]	**.694** [17.63]	2-111196-9
30	**1.010** [25.65]	**.945** [24.00]	**.725** [18.42]	**.700** [17.78]	**.346** [8.79]	**.794** [20.17]	1-111196-9
34	**1.110** [28.19]	**1.045** [26.54]	**.825** [20.96]	**.800** [20.32]	**.396** [10.06]	**.894** [22.71]	3-111196-0
40	**1.260** [32.00]	**1.195** [30.35]	**.975** [34.54]	**.950** [24.13]	**.471** [11.96]	**1.044** [26.52]	2-111196-0
44	**1.360** [34.54]	**1.295** [32.89]	**1.075** [27.31]	**1.050** [26.67]	**.521** [13.23]	**1.144** [29.06]	3-111196-1
50	**1.510** [38.35]	**1.445** [36.70]	**1.225** [31.12]	**1.200** [30.48]	**.596** [15.14]	**1.294** [32.87]	2-111196-1
60	**1.760** [44.70]	**1.695** [43.05]	**1.475** [37.47]	**1.450** [36.83]	**.721** [18.31]	**1.544** [39.22]	2-111196-2
64	**1.860** [47.24]	**1.795** [45.59]	**1.575** [40.00]	**1.550** [39.37]	**.771** [19.58]	**1.644** [41.76]	3-111196-2
68	**1.960** [49.78]	**1.895** [48.13]	**1.675** [42.55]	**1.650** [41.91]	**.821** [20.85]	**1.744** [44.30]	3-111196-4
72	**2.060** [52.32]	**1.995** [50.67]	**1.775** [45.08]	**1.750** [44.45]	**.871** [22.12]	**1.844** [46.84]	2-111196-3
80	**2.260** [57.40]	**2.195** [55.75]	**1.975** [50.17]	**1.950** [49.53]	**.971** [24.66]	**2.044** [51.92]	3-111196-3
100	**2.760** [70.10]	**2.695** [68.45]	**2.475** [62.87]	**2.450** [62.23]	**1.221** [31.01]	**2.544** [64.62]	2-111196-4

Note: All part numbers are RoHS compliant.

Catalog 1307819
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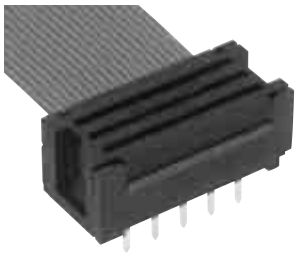
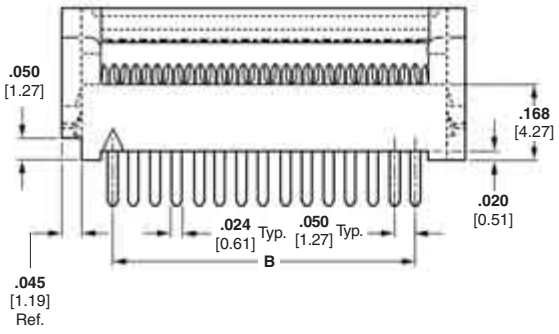
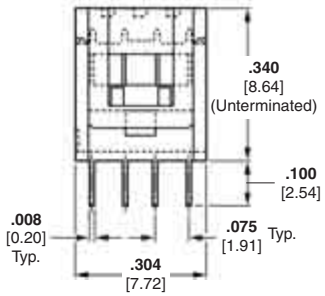
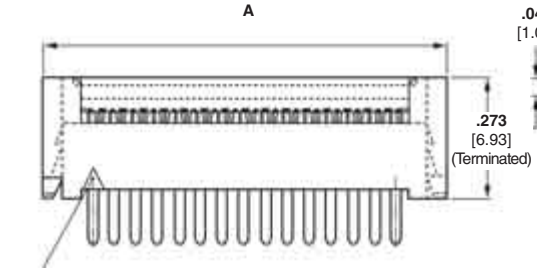
Japan: 81-44-844-8013
UK: 44-8706-080-208

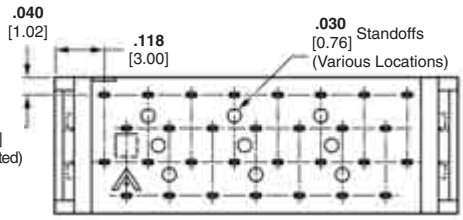
Paddleboard Receptacles, .050 x .100 [1.27 x 2.54] Centerline, Cable-to-Board, Ribbon Cable, System 50











Material and Finish

Housing — Black LCP thermoplastic, 94V-0 rated

Cover — Black polyester, 94V-0 rated

Contacts — Copper alloy, plated .000100-.000200 [0.00245-0.00508] bright tin over .000050-.000100 [0.00127-0.00254] nickel

Related Product Data

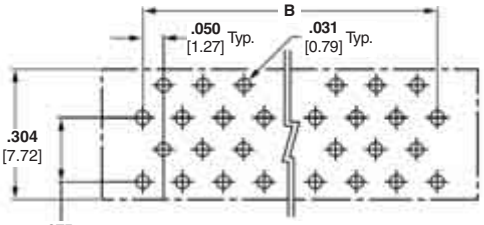
Performance Characteristics — page 63

Application Tooling — pages 60-62

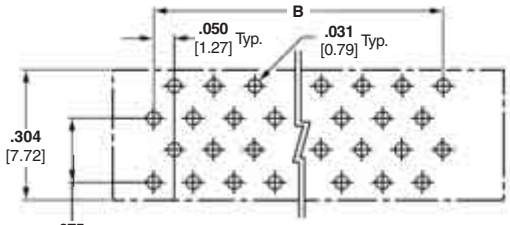
Technical Documents — page 64

Product Specification 108-1109

Application Specification 114-25040



Recommended PC Board Layout 1



Recommended PC Board Layout 2

No. of Pos.	PCB Hole Layout	Dimensions A	Dimensions B	Part Numbers
10	1	**.436** [11.07]	**.200** [5.08]	5111595-1
14	1	**.536** [13.61]	**.300** [7.62]	5111595-2
16	2	**.586** [14.88]	**.350** [8.89]	5111595-3
20	2	**.686** [17.42]	**.450** [11.43]	5111595-4
24	2	**.786** [19.96]	**.550** [13.97]	5111595-5
26	1	**.836** [21.23]	**.600** [15.24]	5111595-6
28	2	**.886** [22.50]	**.650** [16.51]	2-5111595-0
30	1	**.936** [23.77]	**.700** [17.78]	5111595-7
34	1	**1.036** [26.31]	**.800** [20.32]	5111595-8
40	2	**1.186** [30.12]	**.950** [24.13]	5111595-9

No. of Pos.	PCB Hole Layout	Dimensions A	Dimensions B	Part Numbers
44	2	**1.286** [32.66]	**1.050** [26.67]	1-5111595-0
46	1	**1.336** [33.93]	**1.100** [27.94]	1-5111595-7
50	1	**1.436** [36.47]	**1.200** [30.48]	1-5111595-1
60	2	**1.686** [42.82]	**1.450** [36.83]	1-5111595-2
64	2	**1.786** [45.36]	**1.550** [39.37]	1-5111595-3
68	2	**1.886** [47.90]	**1.650** [41.91]	1-5111595-9
72	2	**1.986** [50.44]	**1.750** [44.45]	1-5111595-4
80	2	**2.186** [55.52]	**1.950** [49.53]	1-5111595-5
100	2	**2.686** [68.22]	**2.450** [62.23]	1-5111595-6

Note: All part numbers are RoHS compliant.

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UK: 44-8706-080-208

Flat Ribbon Cable, PVC Insulation

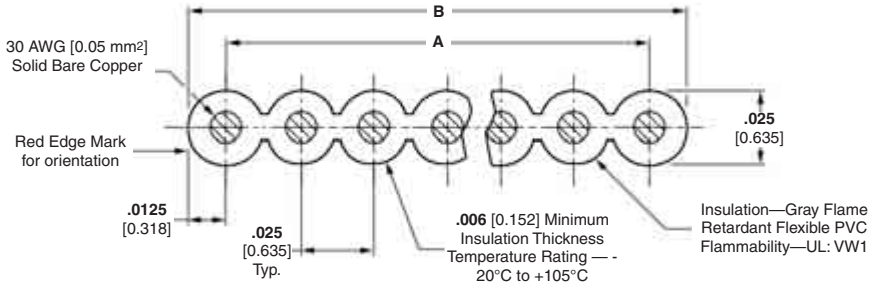
30 AWG [0.05 mm²], Solid Bare Copper

Product Specifications

Voltage —150 Volts
Impedance — 80 Ohms Nominal (GND,SIG, GND, applies to 30AWG Solid Bare Copper)
Capacitance — 19.2 pf/ft at 1 MHz nom.
Propagation Delay — 1.51 ns/ft nom.
Crosstalk —
10 ft sample 5 ns rise time:
Near End — 4.0% max.
Far End — 6.0% max.
UL Listing — STYLE 2678

Recognized under the Component Program of Underwriters Laboratories Inc., File No. E53793

Certified by Canadian Standards Association, (CSA File No. LL83498)



No. of Conductors	Dimensions		Part Numbers	
			Length Per Reel*	
	A	B	100 ft. [30.48 m]	500 ft. [152.4 m]
16	**.375** [9.52]	**.400** [10.16]	5-57013-1	5-57013-2
20	**.475** [12.07]	**.500** [12.70]	1-57013-3	57013-1
24	**.575** [14.61]	**.600** [15.24]	1-57013-4	57013-8
26	**.625** [15.88]	**.650** [16.51]	2-57013-5	2-57013-6
28	**.675** [17.14]	**.700** [17.78]	4-57013-6	4-57013-7
30	**.725** [18.42]	**.750** [19.05]	1-57013-5	57013-6
34	**.825** [20.95]	**.850** [21.59]	4-57013-9	5-57013-0
36	**.875** [22.23]	**.900** [22.86]	1-57013-6	57013-7
40	**.975** [24.77]	**1.000** [25.40]	1-57013-7	57013-2
44	**1.075** [27.31]	**1.100** [27.94]	1-57013-8	57013-9
50	**1.225** [27.94]	**1.250** [31.75]	1-57013-9	1-57013-0
60	**1.475** [37.47]	**1.500** [38.10]	2-57013-0	57013-3
68	**1.675** [42.55]	**1.700** [43.18]	2-57013-1	1-57013-1
72	**1.775** [45.09]	**1.800** [45.72]	2-57013-2	1-57013-2
80	**1.975** [50.17]	**2.000** [50.80]	2-57013-3	57013-4
100	**2.475** [62.87]	**2.500** [63.50]	2-57013-4	57013-5

*Reel may contain separate lengths, 20 ft. [6.1 m] min. per length.

Electrical Characteristics of .025 [0.64] Centerline IDC Ribbon Cable

Base Part No.	Insulation	AWG	Voltage	Impedance Single Ended G-S-G	Capacitance Nominal G-S-G	Inductance Nominal	Nominal Prop. Delay	NEXT 10 Ft 5ns Rise Time	FEXT 10 Ft 5ns Rise Time
57013	PVC	30 Solid	150 Vac	80 Ohms Nom	19.2 pf/ft	.160 mh/ft	1.51 ns/ft	4.0% Max	6.0% Max
219054, 219137	TPE	30 Solid	150 Vac	90+/- 6 Ohms	15.3 pf/ft	.124 mh/ft	1.382 ns/ft	2.39% Nom	2.99% Nom
57119, 57139, 57145	FEP	30 Solid	300 Vac	93 Ohms Nom	13.6 pf/ft	.120 mn/ft	1.34 ns/ft	2.6% Nom	2.8% Nom
57131	PVC	30 Stranded	150 VAC	66 Ohms Nom	23.0 pf/ft	.100 mh/ft	1.55 ns/ft	2.8% Max	4.5% Max
219055	TPE	30 Stranded	150 VAC	78 Ohms Nom	19.4 pf/ft	.118 mh/ft	1.510 ns/fr	1.37% Nom	2.37% Nom
57288, 57289, 57290	FEP	30 Stranded	300 Vac	85 Ohms Nom	15.4 pf/ft	.110 mh/ft	1.36 ns/ft	2.5% Nom	2.8% Nom
219253	TPE	31 Stranded	150 Vac	90+/- 6 Ohms	15.4 pf/ft	.125 mh/ft	1.527 ns/ft	1.97% Nom	2.51% Nom
57038	PVC	32 Stranded	150 Vac	80 Ohms Nom	19.2 pf/ft	.147 mh/ft	1.51 ns/ft	4.0% Max	6.0% Max
219138	TPE	32 Stranded	150 Vac	104 Ohms Nom	12.8 pf/ft	.138 mh/ft	1.664 ns/ft	2.10% Nom	2.57% Nom
57118, 57138, 57144	FEP	32 Stranded	300 Vac	105 Ohms Nom	13.0 pf/ft	.120 mh/ft	1.36 ns/ft	2.6% Nom	2.8% Nom

Note: All part numbers are RoHS compliant.

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Centerline IDC Ribbon Cable, PVC Insulation

30 AWG 7/38 Stranded Tinned Copper

For use with:
AMP-LATCH System 50, AMPLIMITE .050 Series and AMPMODU System 50 Connectors

Compatible with:
AMP R-CAM Ribbon Cable Assembly Machine

Product Specifications

Voltage Rating — 150 Volts

Impedance — 66 ohms (GND, SIG, GND)

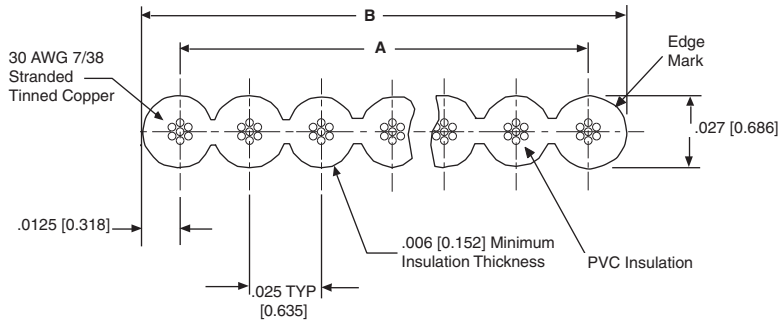
Capacitance — 23 pf/ft. at 1 KHz

Propagation Delay — 1.55 ns/ft. [5.6 ns/m]

Crosstalk —
10 Ft. sample 5 ns rise time
Near End — 2.8% max
Near End — 4.5% max

UL AWM Style 2678

Certified



No. of Conductors	Dimensions		Part Numbers Length Per Reel	
	A	B	100 ft. [30.5 m]	500 ft. [152.4 m]
20	**.475** [12.07]	**.500** [12.70]	1-57131-3	57131-1
40	**.975** [24.77]	**1.000** [25.40]	1-57131-7	57131-2
50	**1.225** [31.12]	**1.250** [31.75]	1-57131-9	1-57131-0
68	**1.675** [42.55]	**1.700** [43.18]	2-57131-1	1-57131-1
80	**1.975** [50.17]	**2.000** [50.80]	2-57131-3	57131-4
100	**2.475** [62.87]	**2.500** [63.50]	2-57131-4	57131-5

Note: All part numbers are RoHS compliant.

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Application Tooling for Flexible Film Contacts

Hand Crimping Tool Assemblies (for repair purposes)

Part No. 90273-5—for .100 ℄ Multi-Crimp Contacts (408-9564)

Extraction Tools for .100 ℄ Contacts

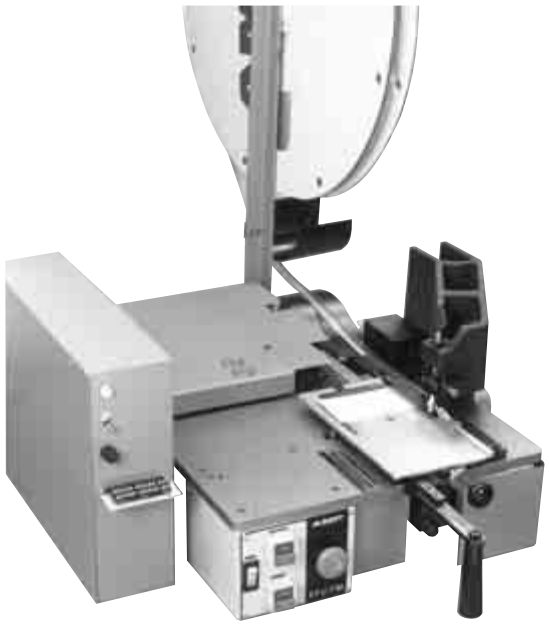
Tool No. 91200-□*— for Receptacle Housings with **Side Locking Lance Slot** (408-7916)

Tool No. 91047-□*— for Receptacle and Pin Housings with **End Locking Lance Slot** (408-7384)

*Consult Tyco Electronics for specific dash nos.

For tooling information, contact the Technical Support Center: **1-800-522-6752.**

Flexible Film Termination Machine (Terminates Continuous Strip Contacts Sequentially)



The flexible film semiautomatic bench machine for terminating .050 [1.27] and .100 [2.54] centerline flexible flat conductor cable (FFC), flexible etched circuitry (FEC), and flexible printed wiring (FPW) with AMP FFC reel-mounted contacts. For each cable or circuitry, the contacts are automatically applied one-at-a-time in a straight sequence. To skip positions, an optional programmer control box is available. Crimp height is easily adjustable in .0002 [.0051] increments. Termination rates up to 200 contacts per minute.

Description	Machine Part Numbers	
	Machine	Machine With Programmer*
.100 [2.54] ℄, Multi-Crimp, 120 V	224910-1	318619-1
.100 [2.54] ℄, Multi-Crimp, 240 V	224910-2	318619-2
.100 [2.54] ℄, ARINC, 120 V	224910-3	318619-3
.050 [1.27] ℄, Multi-Crimp, 120 V	224910-4	318619-4
.050 [1.27] ℄, Multi-Crimp, 240 V	224910-6	318619-6

*The Programmer Kit (**Part No. 356484-1**) may be purchased with a new machine, or separately for adding onto an existing machine.

Technical Documents

Customer Manuals
409-5835 (Part Numbers 224910 and 318619)
409-5880 Programmer Kit (Part Number 356484-1)

Specifications

Width — 20.5 [520]
Depth — 27.5 [700]
Height — 18 [460] (with reel support)
Reel Size — 24 [610] (max.)
Weight — 100 lb. [45.4 kg]
Electrical Source —
120 VAC, 50/60 Hz, 7.0 A;
240 VAC, 50/60 Hz, 3.5 A

Note: All part numbers are RoHS compliant.

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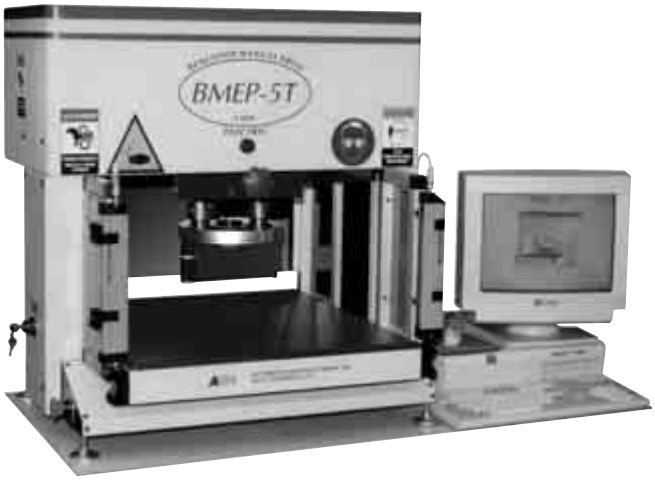
Application Tooling for Compliant Pin Connectors

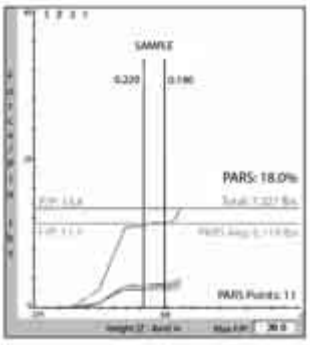
ASG Servo Electric Presses for Compliant Pin Connectors

Tyco Electronics offers the ASG line of servo electric presses for the application of compliant pin products. Systems are available in a wide range of pressing forces, board size capabilities and automation levels to meet almost any applications requirements. Each system utilizes a servo electric motor with PC control. Coupled with force and distance monitoring and control, the entire line provides 100% quality assurance in real-time with SPC data collection capabilities. Automatic set up and a graphical operator interface help provide intuitive operation to help reduce common and costly operator errors.



Press Force Monitoring for Scrap Avoidance

Every Tyco Electronics ASG servo press utilizes real-time force and distance monitoring and control. This allows the press to identify an error and react throughout the press stroke. Common problems such as PCB holes above\below specification and sometimes bent pins can be detected by monitoring both minimum and maximum force parameters. Common operator error such as improperly placed connectors, missing\incorrect connector or tooling can also be found by monitoring premature or missing force parameters. In each case, the system can stop during the press cycle to avoid costly scrap and rework.



Product Line Overview

	BMEP	MEP	AEP 6T	AEP 12T
System Type	Benchtop Semi-Automatic Press	Stand-Alone Semi-Automatic Press	Stand-Alone Automatic Press	Stand-Alone or Inline Automatic Press
Force Capability	Up to 5 Tons [44 kN]	Up to 12 Tons [107 kN]	Up to 6 Tons [53 kN]	Up to 12 Tons [107 kN]
Board Size Capability	Up to 18" x 24" [460x610 mm]	Up to 30" x 36" [760x915 mm]	Up to 30" x 36" [760x915 mm]	Up to 36" x 48" [915x1220 mm]

Please contact the Tyco Tooling Assistance Center at 1-800-722-1111 for help with choosing the correct press and tooling to meet your application needs.
See Catalog 1309329 for more information on this equipment.

Note: All part numbers are RoHS compliant.

Catalog 1307819
Revised 8-08

www.tycoelectronics.com

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

Dimensions are shown for reference purposes only. Specifications subject to change.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 01-800-733-8926
C. America: 52-55-1106-0803

South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

Application Tooling for Ribbon Cable Connectors

These application tools are designed for one-step termination of ribbon cable connectors to planar, ground plane and shielded/jacketed ribbon cable on .025 [0.64] centers. A complete set of tooling consists of an Arbor Tool (manual, Part No. 91085-2 or pneumatic, Part No. 91112-3), a Base Assembly, Part No. 768338-4 and a Connector Specific Kit, Part No. 679167-1 (receptacle).

Pneumatic Auto-Cycle Tool Part No. 91112-3

Manual Arbor Tool Part No. 91085-2

Technical Documents

Instruction Sheets

408-7777 — Manual Arbor Frame Assembly

408-6732 — Pneumatic Auto-Cycle Assembly

408-9827 — Universal Base Assembly, Arbor Tool

408-9872 — Connector Specific Kit for Receptacle Connectors (.025 [0.64] Centerline Cable)

408-9928 — Connector Specific Kit for Paddleboard Connectors (.025 [0.64] Centerline Cable)

Note: Tooling is available for other manufacturers' manual arbor tools. For information contact the Tyco Electronics Technical Support Center: 1-800-522-6752

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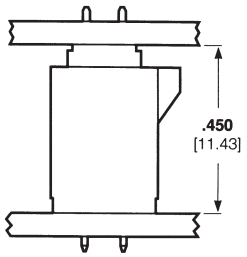
UK: 44-8706-080-208

Performance Specifications

Board-to-Board Spacing for Thru-Hole and Surface-Mount Connector Combinations

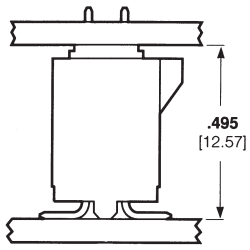
Thru-Hole Receptacle–Thru-Hole Header

(Single and Double Row, Shrouded and Unshrouded)



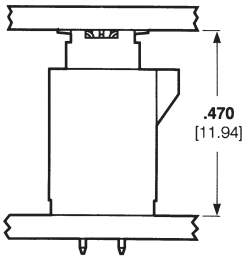
Thru-Hole Receptacle–Surface-Mount Header

(Double Row, Shrouded)



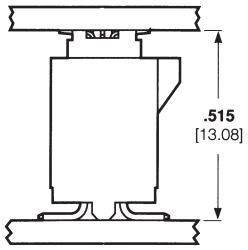
Surface-Mount Receptacle–Thru-Hole Header

(Double Row, Shrouded and Unshrouded)



Surface-Mount Receptacle–Surface-Mount Header

(Double Row, Shrouded)



Need more information?

Call the Technical Support Center: **1-800-522-6752.** The Technical Support Center is staffed with specialists well versed in all Tyco Electronics products. The Center can provide you with:

- Technical Support
- Catalogs
- Technical Documents
- Product Samples
- Tyco Electronics Authorized Distributor Locations

Performance Specifications

Description	Board-to-Board, Thru-Hole Headers and Receptacles	Board-to-Board, Surface-Mount, Headers and Receptacles	Cable-to-Board, .050 [1.27] Centerline FFC Cable Receptacles	Cable-to-Board, .025 [0.64] Centerline Ribbon Cable Receptacles
Size Range-Single Row Double Row	4 thru 50 10 thru 100	— 10 thru 100	4 thru 50 8 thru 100	— 10 thru 100
Current Rating (per contact)	1.0 amperes	1.0 amperes	1.5 amperes	0.5 amperes
Dielectric Withstanding Voltage	500 VAC	500 VAC	300 VAC	200 VAC
Insulation Resistance	5,000 Megohms	5,000 Megohms	5,000 Megohms	5,000 Megohms
Durability (tested to)	200 Cycles	200 Cycles	200 Cycles	150 Cycles
Mating Force (per contact)	5 oz. [1.38 N] Max.	5 oz. [1.38 N] Max.	8 oz. [2.22 N] Max.	4 oz. [1.11 N] Max.
Unmating Force (per contact)	0.8 oz. [0.22 N] Min.	0.8 oz. [0.22 N] Min.	1.0 oz. [0.27 N] Min.	*0.5 oz. [0.13 N] Min.
Operating Temperature	-65°C to +105°C	-65°C to +105°C	-55°C to +105°C	-65°C to +105°C

*With latches depressed.

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Technical Documents

The following is a list of technical documents covering the application, performance and maintenance of AMPMODU System 50 connectors.

Product Specifications describe technical performance characteristics and verification tests. They are intended for the Design, Component and Quality Engineer.

108-1093—AMPMODU System 50 Interconnection System, Board-to-Board

108-1109—AMPLATCH System 50 Receptacle and Paddleboard Connector

108-16022—Connector System, .050 [1.27] Centerline FFC Cable

108-16025—Connector, ZIF-Line 50

108-16029—Shielded Flexible Flat Conductor Cable

108-40002—Flexible Flat Conductor Cable

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.

114-16008—Multiple Crimp Contact for .050 [1.27] Centerline FFC and FEC Cable

114-16014—AMP ZIF-Line 50 & 100 PCB Connectors

114-25029—AMPMODU System 50 Ribbon Cable Connectors

114-25031—AMPMODU System 50 Thru-Hole Connectors

114-25035—AMPMODU Surface-Mount Connectors

114-25040—AMPMODU System 50 Paddleboard Connectors

Instruction Sheets provide instructions for assembling or applying the product. They are intended for the Manufacturing Assembler or Operator.

408-6732—Pneumatic Arbor Tool, Part Number 91112-3 (Auto-Cycle)

408-7384—Extraction Tool, Part Number 91047

408-7763—Pneumatic Arbor Tool, Part Number 91112-2

408-7777—Manual Arbor Tool, Part Number 91085-2

408-7916—Extraction Tool, Part Number 91200

408-9827—Universal Base Assembly, Arbor Tool, Part Number 768338-1

408-9872—Connector Specific Kit, Part Number 679167-1, AMPMODU System 50 Receptacle Connectors (.025 [0.64] Centerline Cable)

408-9928—Connector Specific Kit, Part Number 679176-1, AMPMODU System 50 Paddleboard Connectors (.025 [0.64] Centerline Cable)

408-9564—Hand Crimping Tool Assembly, Part Number 90273-5

408-9719—FFC Contact Positioning Hand Tool Kit, Part Number 91292-1

Note: All part numbers are RoHS compliant.

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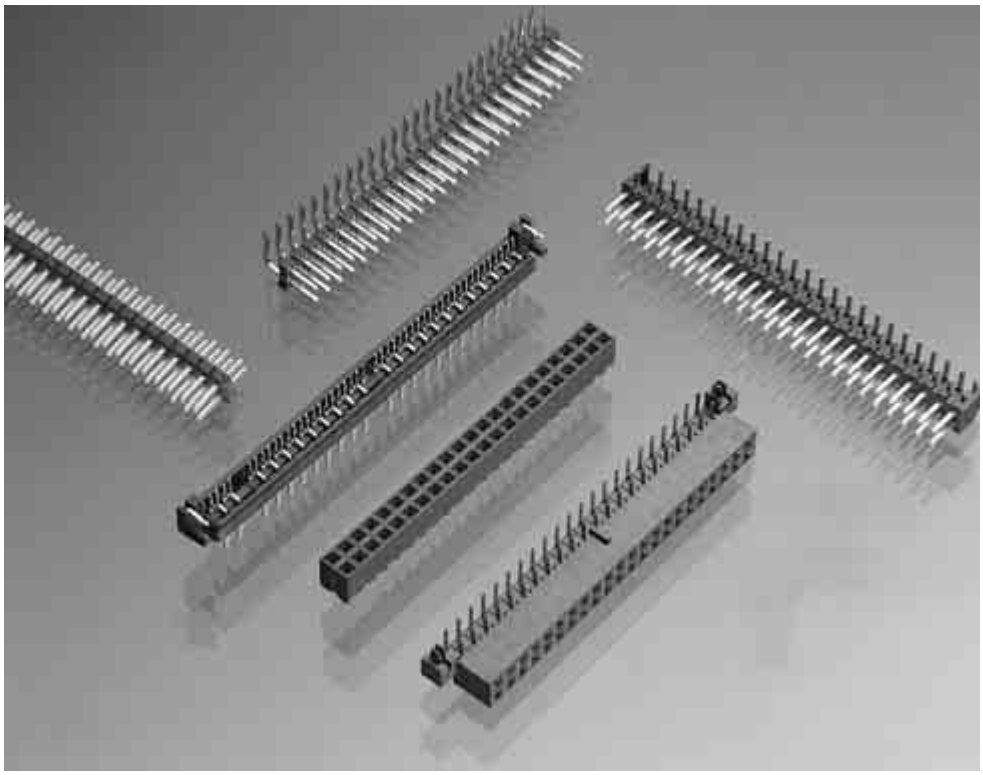
AMPMODU 2mm Connectors (Board to Board)

Product Facts

- **2.0 x 2.0 [.08 x .08] centerline spacing**
- **Two-piece, double-row connector system**
- **Unshrouded header styles include; breakaway and surface-mount**
- **All headers with 0.5 [.02] square posted contacts**
- **Surface-mount connectors compatible with standard surface-mount processing (VPR, IR)**
- **Closed top-entry receptacle assemblies include; vertical mount and right-angle**
- **Receptacle contacts employ dual cantilever beams for two-point electrical stability**
- **Duplex (gold/tin-lead) plated posted contacts and receptacle contacts**
- **Thermoplastic housing material, UL 94V-0 rated**
- **Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476**
- **Certified by Canadian Standards Association, File No. LR7189**
- **Produced under a Quality Management System certified to ISO 9001**

A copy of the certificate is available upon request.



AMPMODU 2mm connectors reliably and economically meet the packaging and inter-connection requirements of today's miniature sophisticated electronics. They are ideal for mobile and portable personal computers and disk drive applications. In today's marketplace, 2mm is expanding over many other industry segments due to space constraints.

This versatile double-row connector system is comprised of various straight and right-angle posted headers for thru-hole and surface mounting and several closed top-entry receptacle assemblies for vertical and horizontal mounting. Headers and receptacle assemblies are available in selected sizes ranging from 4 through 80 positions.

Thru-hole breakaway headers feature brass straight or right-angle posts with a post length of 4.0 [.16] and a lead length of 2.6 [.10].

The receptacle assemblies employ phosphor bronze contacts with dual cantilever beams and built-in anti-overstress. This feature, coupled with duplex (gold/tin-lead) plating of the header posts and receptacle contacts, provide superior electrical performance as well as excellent solderability.

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UK: 44-8706-080-208

2mm Headers, Unshrouded, Double Row, Thru-Hole, Vertical Mount

0.5 [.02] Square Straight Posts

Material and Finish

Housing — Black thermoplastic, UL 94V-0 Rated

Posted Contacts — Copper alloy, duplex plated as follows:

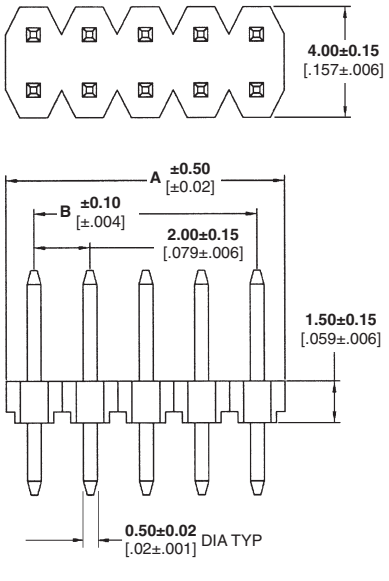
0.00020 [.000008] min. gold on contact area, 0.00254 [.000100] min. tin on solder area, with entire contact underplated 0.00127 [.000050] min. nickel

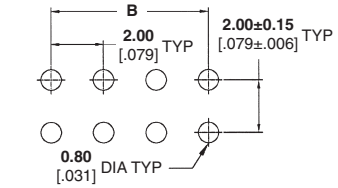
Related Product Data

Mateable Receptacles — pages 80-84

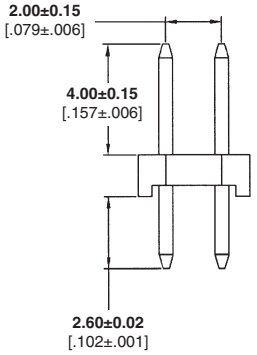
Product Specification 108-57197

Packaging Method — Loose piece, bag





Recommended Solder Pad Layout



Position	Dimensions A	Dimensions B	Part Numbers Reflow 240°C	Part Numbers Reflow 265°C
4	**4.0** [.16]	**2.0** [.08]	1470213-4	1734508-4
6	**6.0** [.24]	**4.0** [.16]	1470213-6	1734508-6
8	**8.0** [.32]	**6.0** [.24]	1470213-8	1734508-8
10	**10.0** [.39]	**8.0** [.32]	1-1470213-0	1-1734508-0
12	**12.0** [.47]	**10.0** [.39]	1-1470213-2	1-1734508-2
14	**14.0** [.55]	**12.0** [.47]	1-1470213-4	1-1734508-4
16	**16.0** [.63]	**14.0** [.55]	1-1470213-6	1-1734508-6
18	**18.0** [.71]	**16.0** [.63]	1-1470213-8	1-1734508-8
20	**20.0** [.79]	**18.0** [.71]	2-1470213-0	2-1734508-0
22	**22.0** [.87]	**20.0** [.79]	2-1470213-2	2-1734508-2
24	**24.0** [.94]	**22.0** [.87]	2-1470213-4	2-1734508-4
26	**26.0** [1.02]	**24.0** [.94]	2-1470213-6	2-1734508-6
28	**28.0** [1.10]	**26.0** [1.02]	2-1470213-8	2-1734508-8
30	**30.0** [1.18]	**28.0** [1.10]	3-1470213-0	3-1734508-0
32	**32.0** [1.26]	**30.0** [1.18]	3-1470213-2	3-1734508-2
34	**34.0** [1.34]	**32.0** [1.26]	3-1470213-4	3-1734508-4
36	**36.0** [1.42]	**34.0** [1.34]	3-1470213-6	3-1734508-6
38	**38.0** [1.50]	**36.0** [1.42]	3-1470213-8	3-1734508-8
40	**40.0** [1.57]	**38.0** [1.50]	4-1470213-0	4-1734508-0
42	**42.0** [1.65]	**40.0** [1.57]	4-1470213-2	4-1734508-2
44	**44.0** [1.73]	**42.0** [1.65]	4-1470213-4	4-1734508-4
46	**46.0** [1.81]	**44.0** [1.73]	4-1470213-6	4-1734508-6
48	**48.0** [1.89]	**46.0** [1.81]	4-1470213-8	4-1734508-8
50	**50.0** [1.97]	**48.0** [1.89]	5-1470213-0	5-1734508-0
52	**52.0** [2.05]	**50.0** [1.97]	5-1470213-2	5-1734508-2
54	**54.0** [2.13]	**52.0** [2.05]	5-1470213-4	5-1734508-4
56	**56.0** [2.20]	**54.0** [2.13]	5-1470213-6	5-1734508-6
58	**58.0** [2.28]	**56.0** [2.20]	5-1470213-8	5-1734508-8
60	**60.0** [2.36]	**58.0** [2.28]	6-1470213-0	6-1734508-0
62	**62.0** [2.44]	**60.0** [2.36]	6-1470213-2	6-1734508-2
64	**64.0** [2.52]	**62.0** [2.44]	6-1470213-4	6-1734508-4
66	**66.0** [2.60]	**64.0** [2.52]	6-1470213-6	6-1734508-6
68	**68.0** [2.68]	**66.0** [2.60]	6-1470213-8	6-1734508-8
70	**70.0** [2.76]	**68.0** [2.68]	7-1470213-0	7-1734508-0
72	**72.0** [2.83]	**70.0** [2.76]	7-1470213-2	7-1734508-2
74	**74.0** [2.91]	**72.0** [2.83]	7-1470213-4	7-1734508-4
76	**76.0** [2.99]	**74.0** [2.91]	7-1470213-6	7-1734508-6
78	**78.0** [3.07]	**76.0** [2.99]	7-1470213-8	7-1734508-8
80	**80.0** [3.15]	**78.0** [3.07]	8-1470213-0	8-1734508-0

Note: All part numbers are RoHS compliant.

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2mm Headers, Unshrouded, Double Row, Thru-Hole, Right-Angle Mount

0.5 [.02] Square Straight Posts

Material and Finish

Housing — Black thermoplastic, UL 94V-0 Rated, 265°C Process Capable

Posted Contacts — Copper alloy, duplex plated as follows:

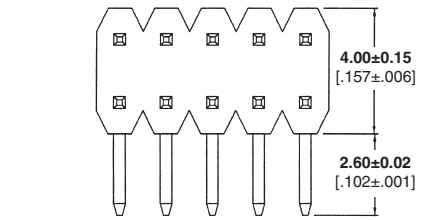
0.00020 [.000008] min. gold on contact area, 0.00254 [.000100] min. tin on solder area, with entire contact underplated 0.00127 [.000050] min. nickel

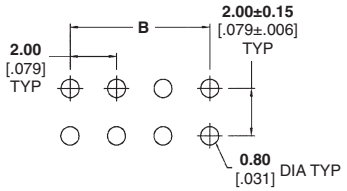
Related Product Data

Mateable Receptacles — pages 80-84

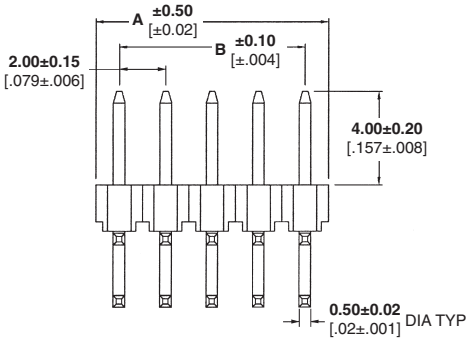
Product Specification 108-57197

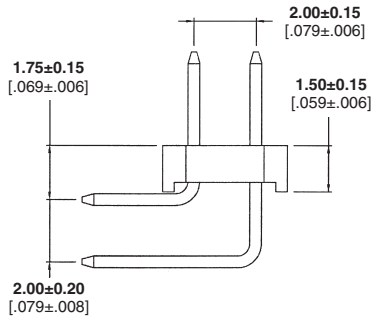
Packaging Method — Loose piece, bag





Recommended Solder Pad Layout





Position	Dimensions		Part Numbers
	A	B	
4	**4.0** [0.16]	**2.0** [0.08]	1734507-4
6	**6.0** [0.24]	**4.0** [0.16]	1734507-6
8	**8.0** [0.31]	**6.0** [0.24]	1734507-8
10	**10.0** [0.39]	**8.0** [0.31]	1-1734507-0
12	**12.0** [0.47]	**10.0** [0.39]	1-1734507-2
14	**14.0** [0.55]	**12.0** [0.47]	1-1734507-4
16	**16.0** [0.63]	**14.0** [0.55]	1-1734507-6
18	**18.0** [0.71]	**16.0** [0.63]	1-1734507-8
20	**20.0** [0.79]	**18.0** [0.71]	2-1734507-0
22	**22.0** [0.87]	**20.0** [0.79]	2-1734507-2
24	**24.0** [0.94]	**22.0** [0.87]	2-1734507-4
26	**26.0** [1.02]	**24.0** [0.94]	2-1734507-6
28	**28.0** [1.10]	**26.0** [1.02]	2-1734507-8
30	**30.0** [1.18]	**28.0** [1.10]	3-1734507-0
32	**32.0** [1.26]	**30.0** [1.18]	3-1734507-2
34	**34.0** [1.34]	**32.0** [1.26]	3-1734507-4
36	**36.0** [1.42]	**34.0** [1.34]	3-1734507-6
38	**38.0** [1.50]	**36.0** [1.42]	3-1734507-8
40	**40.0** [1.57]	**38.0** [1.50]	4-1734507-0
42	**42.0** [1.65]	**40.0** [1.57]	4-1734507-2
44	**44.0** [1.73]	**42.0** [1.65]	4-1734507-4
46	**46.0** [1.81]	**44.0** [1.73]	4-1734507-6
48	**48.0** [1.89]	**46.0** [1.81]	4-1734507-8
50	**50.0** [1.97]	**48.0** [1.89]	5-1734507-0
52	**52.0** [2.05]	**50.0** [1.97]	5-1734507-2
54	**54.0** [2.13]	**52.0** [2.05]	5-1734507-4
56	**56.0** [2.20]	**54.0** [2.13]	5-1734507-6
58	**58.0** [2.28]	**56.0** [2.20]	5-1734507-8
60	**60.0** [2.36]	**58.0** [2.28]	6-1734507-0
62	**62.0** [2.44]	**60.0** [2.36]	6-1734507-2
64	**64.0** [2.52]	**62.0** [2.44]	6-1734507-4
66	**66.0** [2.60]	**64.0** [2.52]	6-1734507-6
68	**68.0** [2.68]	**66.0** [2.60]	6-1734507-8
70	**70.0** [2.76]	**68.0** [2.68]	7-1734507-0
72	**72.0** [2.83]	**70.0** [2.76]	7-1734507-2
74	**74.0** [2.91]	**72.0** [2.83]	7-1734507-4
76	**76.0** [2.99]	**74.0** [2.91]	7-1734507-6
78	**78.0** [3.07]	**76.0** [2.99]	7-1734507-8
80	**80.0** [3.15]	**78.0** [3.07]	8-1734507-0

Note: All part numbers are RoHS compliant.

Catalog 1307819
Revised 8-08

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UK: 44-8706-080-208

2mm Breakaway Headers, Unshrouded, Double Row, Thru-Hole, Right-Angle Mount

0.5 [.02] Square Right-Angle Posts

Material and Finish

Housing — Black thermoplastic, UL 94V-0 rated

Posted Contacts — Brass, duplex plated as follows:

A — 0.00020 [.000008] min. gold on contact area, 0.00100 [.000039] min. tin on solder area, with entire contact underplated 0.00130 [.000051] min. nickel

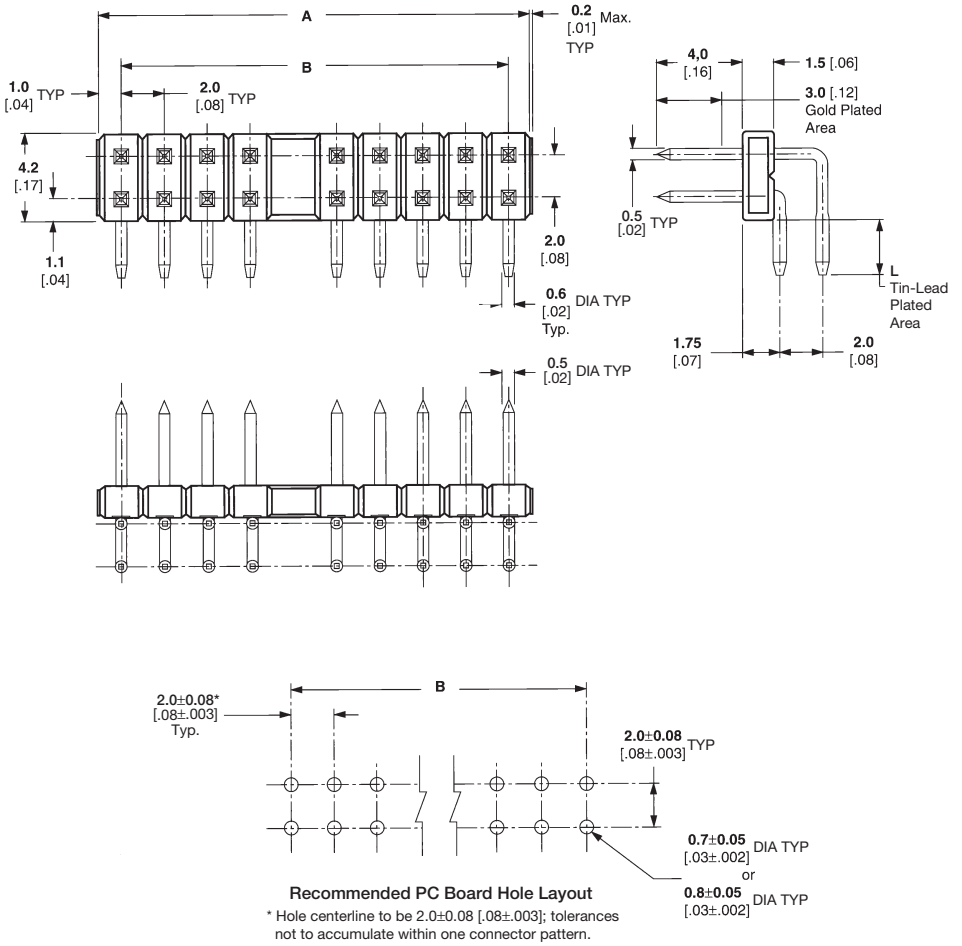
B — 0.00076 [.000030] min. gold on contact area, 0.00100 [.000039] min. tin on solder area, with entire contact underplated 0.00130 [.000051] min. nickel

Related Product Data

Mateable Receptacles — pages 80-84

Product Specification
108-5296

Packaging Method — Loose piece, bag



Recommended PC Board Hole Layout

* Hole centerline to be 2.0±0.08 [.08±.003]; tolerances not to accumulate within one connector pattern.

No. of Positions	Dimensions		Contact Plating	
			Lead Length L = 2.6[.10]**	
	A	B	A	B
4	**4.0** [0.16]	**2.0** [0.08]	5176837-1	2-5176837-5
6	**6.0** [0.24]	**4.0** [0.16]	5176837-2	2-5176837-6
8	**8.0** [0.31]	**6.0** [0.24]	5176837-3	—
10	**10.0** [0.39]	**8.0** [0.31]	5176837-4	—
12	**12.0** [0.47]	**10.0** [0.39]	5176837-5	—
14	**14.0** [0.55]	**12.0** [0.47]	5176837-6	3-5176837-0
16	**16.0** [0.63]	**14.0** [0.55]	5176837-7	—
18	**18.0** [0.71]	**16.0** [0.63]	—	3-5176837-2
20	**20.0** [0.79]	**18.0** [0.71]	—	3-5176837-3
22	**22.0** [0.87]	**20.0** [0.79]	—	3-5176837-4
26	**26.0** [1.02]	**24.0** [0.94]	1-5176837-2	—
30	**30.0** [1.18]	**28.0** [1.10]	1-5176837-4	—
32	**32.0** [1.26]	**30.0** [1.18]	1-5176837-5	3-5176837-9
34	**34.0** [1.34]	**32.0** [1.26]	—	4-5176837-0
36	**36.0** [1.42]	**34.0** [1.34]	—	4-5176837-1
38	**38.0** [1.50]	**36.0** [1.42]	1-5176837-8	4-5176837-2
40	**40.0** [1.57]	**38.0** [1.50]	1-5176837-9	5-5176837-2
42	**42.0** [1.65]	**40.0** [1.57]	2-5176837-0	4-5176837-4
44	**44.0** [1.73]	**42.0** [1.65]	2-5176837-1	—
46	**46.0** [1.81]	**44.0** [1.73]	2-5176837-2	4-5176837-6
48	**48.0** [1.89]	**46.0** [1.81]	2-5176837-3	4-5176837-7
50	**50.0** [1.97]	**48.0** [1.89]	2-5176837-4	4-5176837-8

Catalog 1307819
Revised 8-08

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UK: 44-8706-080-208

2mm Breakaway Headers, Unshrouded, Double Row, Thru-Hole, Vertical Mount

0.5 [.02] Square Straight Posts

Material and Finish

Housing — Black thermoplastic, UL 94V-0 rated

Posted Contacts — Brass, duplex plated as follows:

Plating A — 0.00020 [.000008] min. gold on contact area, 0.00100 [.000039] min. tin on solder area, with entire contact underplated 0.00130 [.000051] min. nickel

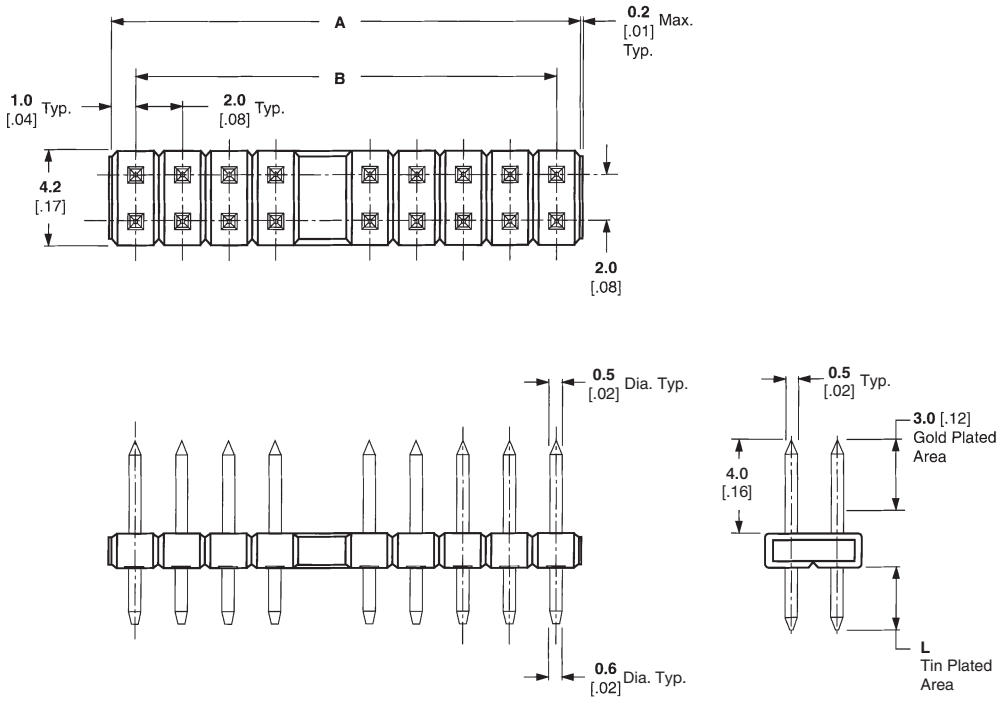
Plating B — 0.00076 [.000030] min. gold on contact area, 0.00100 [.000039] min. tin on solder area, with entire contact underplated 0.00130 [.000051] min. nickel

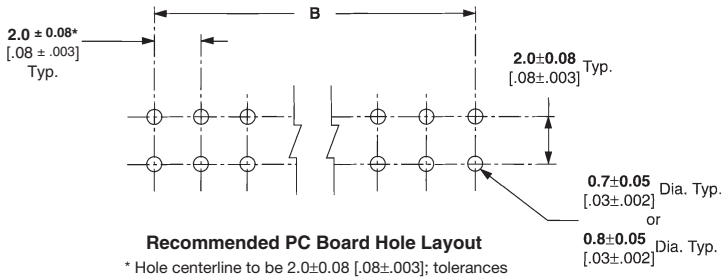
Related Product Data

Mateable Receptacles — pages 80-84

Product Specification 108-5296

Packaging Method — Loose piece, bag





Recommended PC Board Hole Layout

* Hole centerline to be 2.0±0.08 [.08±.003]; tolerances not to accumulate within one connector pattern.

Catalog 1307819
Revised 8-08

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2mm Breakaway Headers, Unshrouded, Double Row, Thru-Hole, Vertical Mount (Continued)

0.5 [.02] Square Straight Posts

No. of Positions	Dimensions		Contact Plating			
			Lead Length L = 1.5 [.06]		Lead Length L = 2.6 [.10]	
	A	B	Plating A	Plating B	Plating A	Plating B
4	**4.0** [0.16]	**2.0** [0.08]	5178751-1	2-5178751-5	5176264-1	1-5176264-6
6	**6.0** [0.24]	**4.0** [0.16]	—	2-5178751-6	5176264-2	1-5176264-7
8	**8.0** [0.31]	**6.0** [0.24]	—	2-5178751-7	5176264-3	1-5176264-8
10	**10.0** [0.39]	**8.0** [0.31]	5178751-4	2-5178751-8	5176264-4	1-5176264-9
12	**12.0** [0.47]	**10.0** [0.39]	—	2-5178751-9	5176264-5	2-5176264-0
14	**14.0** [0.55]	**12.0** [0.47]	5178751-6	3-5178751-0	5176264-6	2-5176264-1
16	**16.0** [0.63]	**14.0** [0.55]	—	3-5178751-1	5176264-7	2-5176264-2
18	**18.0** [0.71]	**16.0** [0.63]	5178751-8	3-5178751-2	5176264-8	2-5176264-3
20	**20.0** [0.79]	**18.0** [0.71]	5178751-9	3-5178751-3	5176264-9	2-5176264-4
22	**22.0** [0.87]	**20.0** [0.79]	1-5178751-0	3-5178751-4	1-5176264-0	2-5176264-5
24	**24.0** [0.94]	**22.0** [0.87]	1-5178751-1	3-5178751-5	1-5176264-1	2-5176264-6
26	**26.0** [1.02]	**24.0** [0.94]	1-5178751-2	3-5178751-6	—	—
28	**28.0** [1.10]	**26.0** [1.02]	—	3-5178751-7	1-5176264-3	—
30	**30.0** [1.18]	**28.0** [1.10]	1-5178751-4	3-5178751-8	1-5176264-4	2-5176264-9
32	**32.0** [1.26]	**30.0** [1.18]	1-5178751-5	3-5178751-9	1-5176264-5	—
34	**34.0** [1.34]	**32.0** [1.26]	1-5178751-6	4-5178751-0	—	4-5176264-0
36	**36.0** [1.42]	**34.0** [1.34]	1-5178751-7	4-5178751-1	3-5176264-2	4-5176264-1
38	**38.0** [1.50]	**36.0** [1.42]	1-5178751-8	4-5178751-2	3-5176264-3	—
40	**40.0** [1.57]	**38.0** [1.50]	1-5178751-9	4-5178751-3	3-5176264-4	—
42	**42.0** [1.65]	**40.0** [1.57]	2-5178751-0	4-5178751-4	—	—
44	**44.0** [1.73]	**42.0** [1.65]	2-5178751-1	4-5178751-5	3-5176264-6	4-5176264-5
46	**46.0** [1.81]	**44.0** [1.73]	2-5178751-2	4-5178751-6	—	4-5176264-6
48	**48.0** [1.89]	**46.0** [1.81]	2-5178751-3	4-5178751-7	—	4-5176264-7
50	**50.0** [1.97]	**48.0** [1.89]	2-5178751-4	4-5178751-8	3-5176264-9	4-5176264-8

Note: All part numbers are RoHS compliant.

Catalog 1307819
Revised 8-08

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UK: 44-8706-080-208

2mm Breakaway Headers, Unshrouded, Double Row, Surface Mount, Vertical Mount

0.5 [.02] Square Straight Posts

Material and Finish

Housing — Black polyphenylene sulfide, UL 94V-0 rated

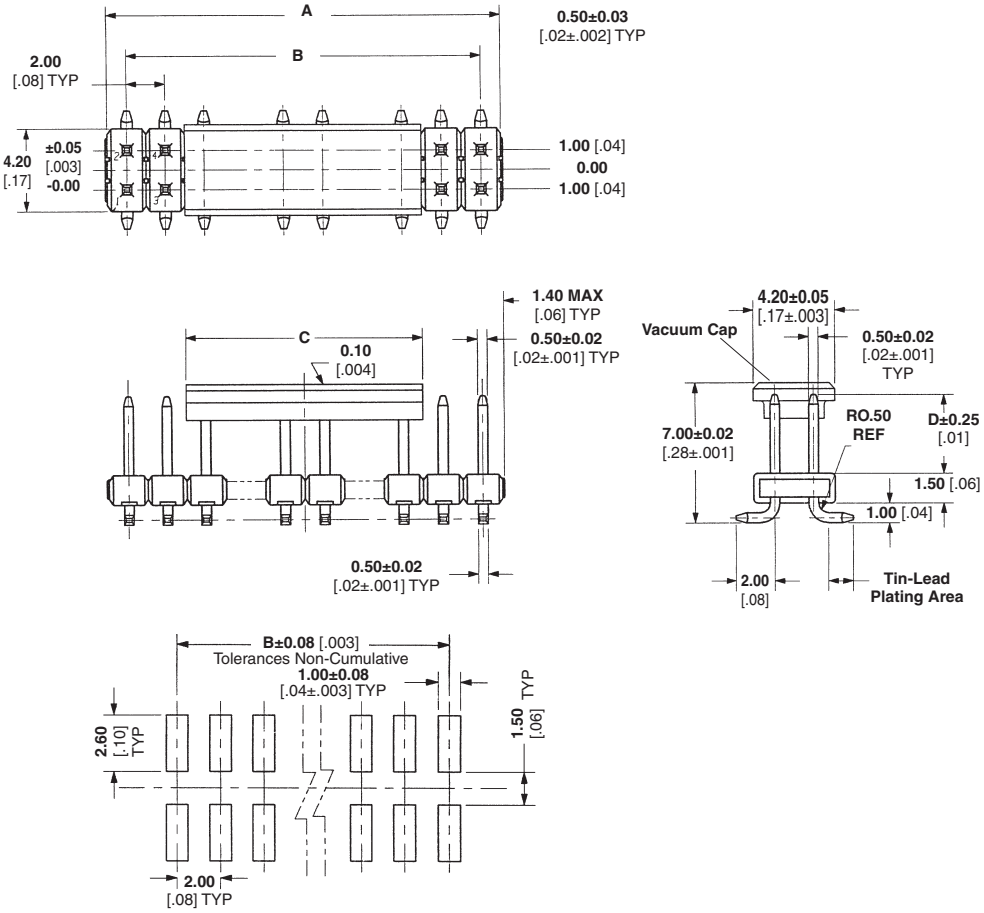
Posted Contacts — Phosphor bronze, plated as follows, Duplex plated 0.00020 [.000008] min. gold on contact area, 0.00200 [.000079] min. tin on solder area, with entire contact underplated 0.00130 [.000051] min. nickel

Related Product Data

Mateable Receptacles — pages 80-84

Product Specification 108-51001

Packaging Method — Tape & Reel



Recommended Solder Pad Layout

No. of Positions	Dimensions A	Dimensions B	Dimensions C	Part Numbers
4	**4.0** [0.16]	**2.0** [0.08]	**4.0** [0.16]	5084476-1
6	**6.0** [0.24]	**4.0** [0.16]	**6.0** [0.24]	5084476-2
12	**12.0** [0.47]	**10.0** [0.39]	**5.0** [0.20]	5084476-7
16	**16.0** [0.63]	**14.0** [0.55]	**8.0** [0.31]	5084476-3

Note: All part numbers are RoHS compliant.

Catalog 1307819
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2mm Breakaway Headers, Unshrouded, Double Row, Surface Mount, Vertical Mount (Continued)

0.5 [.02] Square Straight Posts

Material and Finish

Housing — Black polyphenylene sulfide, UL 94V-0 rated

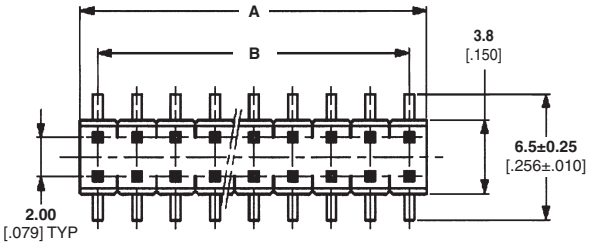
Posted Contacts — Phosphor bronze, plated as follows, Duplex plated 0.0076 [.000030] min. gold on contact area, 0.00254-0.00406 [.000100-.000160] min. tin on solder area, with entire contact underplated 0.00127 [.000050] min. nickel

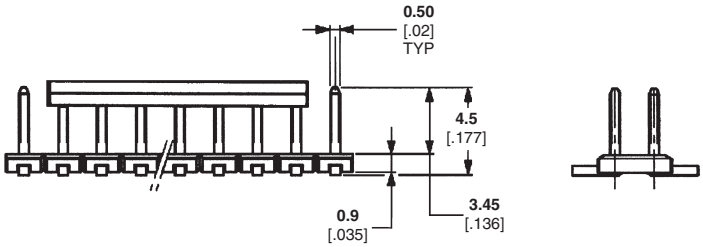
Related Product Data

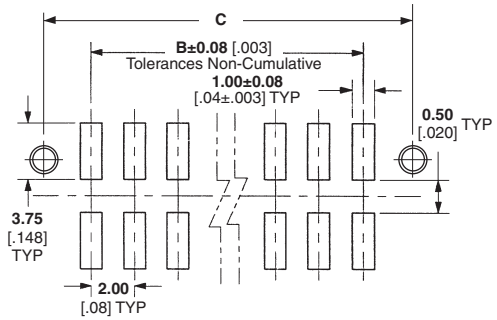
Mateable Receptacles — pages 80-84

Product Specification 108-18544

Packaging Method — Tape & Reel







Recommended Solder Pad Layout

No. of Positions	Dimensions A	Dimensions B	Dimensions C	Part Numbers
4	**4.0** [0.16]	**2.0** [0.08]	**7.60** [0.30]	966926-2
6	**6.0** [0.24]	**4.0** [0.16]	**9.60** [0.38]	966926-3
8	**8.0** [0.31]	**6.0** [0.24]	**11.60** [0.46]	966926-4
10	**10.0** [0.39]	**8.0** [0.31]	**13.60** [0.53]	966926-5
12	**12.0** [0.47]	**10.0** [0.39]	**15.60** [0.61]	966926-6
14	**14.0** [0.55]	**12.0** [0.47]	**17.60** [0.69]	966926-7
16	**16.0** [0.63]	**14.0** [0.55]	**19.60** [0.77]	966926-8
18	**18.0** [0.71]	**16.0** [0.63]	**21.60** [0.85]	966926-9
20	**20.0** [0.79]	**18.0** [0.71]	**23.60** [0.93]	1-966926-0
22	**22.0** [0.87]	**20.0** [0.79]	**25.60** [1.01]	1-966926-1
24	**24.0** [0.94]	**22.0** [0.87]	**27.60** [1.09]	1-966926-2

Note: All part numbers are RoHS compliant.

Catalog 1307819
Revised 8-08

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2mm Stacking Header, Unshrouded, Double Row, Thru-Hole, Vertical Mount

0.5 [.02] Square Straight Posts

12 Position Part Number 1734770-1

Material and Finish

Housing — Black thermoplastic, UL 94 V-O Rated

Posted Contacts — Copper alloy, duplex plated as follows:

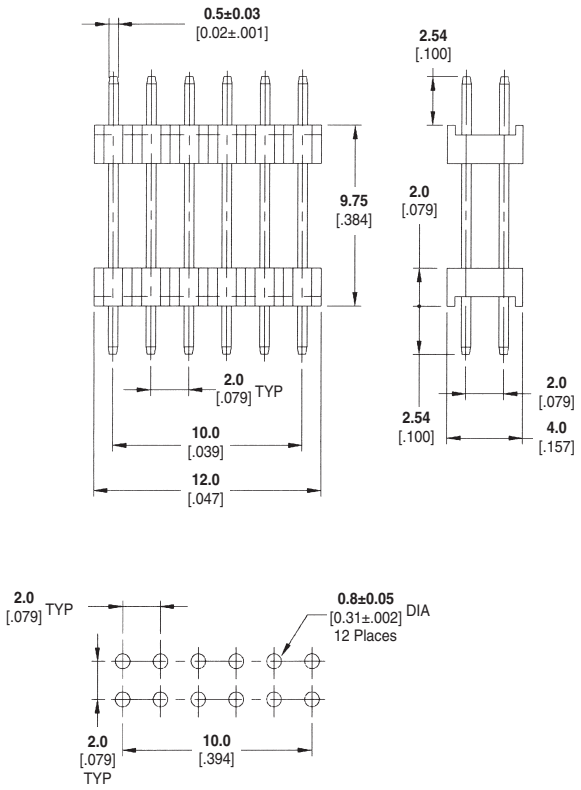
Gold flash all over contact underplated 0.00127 [.000050] min. nickel

Related Product Data

Mateable Receptacles — pages 80-84

Product Specification 108-57331

Packaging Method — Loose piece, bag



Note: All part numbers are RoHS compliant.

Catalog 1307819
Revised 8-08

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UK: 44-8706-080-208

2mm Headers, Shrouded, Double Row, Thru-Hole, Right-Angle Mount

0.5 [.02] Square Right-Angle Posts

26 Position
Part Number 5084780-1

Material and Finish

Housing — High temperature, black thermoplastic, UL 94 V-O Rated

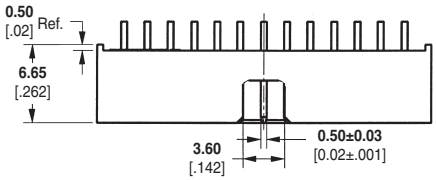
Posted Contacts — Copper alloy, duplex plated as follows: 0.00038 [.000015] min. gold on contact area, 0.00254 [.000100] min. tin on solder area, with entire contact underplated 0.00127 [.000050] min. nickel

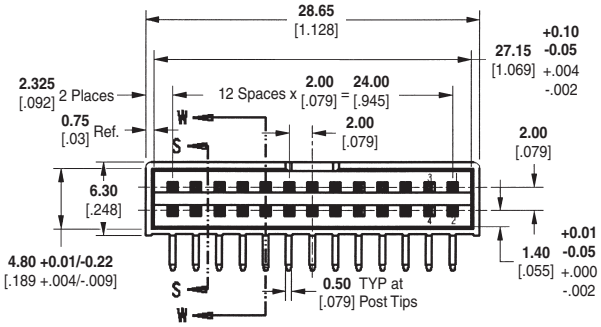
Related Product Data

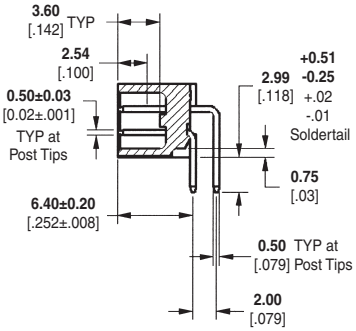
Mateable Receptacles — pages 80 and 84

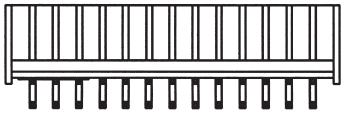
Product Specification
108-5296

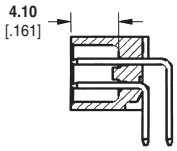
Packaging Method — Tube

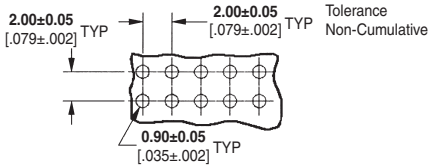












Recommended PCB Layout

Note: All part numbers are RoHS compliant.

Catalog 1307819
Revised 8-08

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2mm Headers, Shrouded, Double Row, Thru-Hole, Right-Angle Mount

(Continued)

0.5 [.02] Square Right-Angle Posts

Material and Finish

Housing — Natural color thermoplastic, UL 94 V-O Rated

Posted Contacts — Brass, plated as follows:

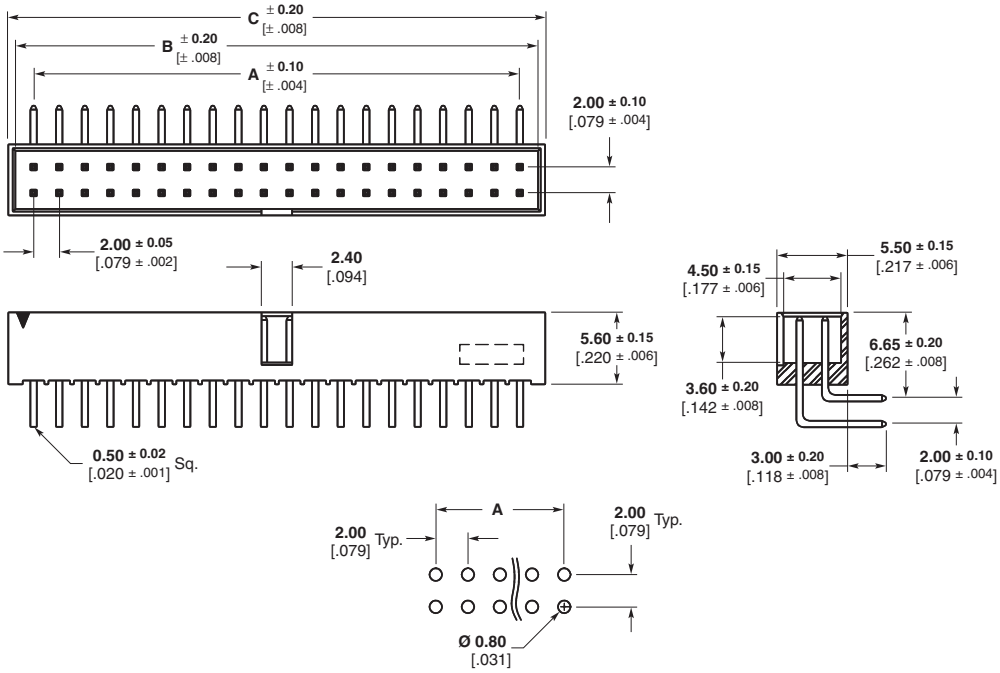
0.00020 [.000008] min. gold on contact area, with 0.00254 [.00010] tin on soldertails, with entire contact underplated 0.00127 [.000050] min. nickel

Related Product Data

Mateable Receptacles — pages 80 and 84

Product Specification 108-57197

Packaging Method — Tubes



Recommended PCB Layout

No. of Positions	Dimensions			Part Numbers
	A	B	C	
8	**6.0** [0.24]	**8.85** [0.35]	**9.95** [0.39]	1734493-8
10	**8.0** [0.31]	**10.85** [0.43]	**11.95** [0.47]	1-1734493-0
12	**10.0** [0.39]	**12.85** [0.51]	**13.95** [0.55]	1-1734493-2
14	**12.0** [0.47]	**14.85** [0.58]	**15.95** [0.63]	1-1734493-4
16	**14.0** [0.55]	**16.85** [0.66]	**17.95** [0.71]	1-1734493-6
18	**16.0** [0.63]	**18.85** [0.74]	**19.95** [0.79]	1-1734493-8
20	**18.0** [0.71]	**20.85** [0.82]	**21.95** [0.86]	2-1734493-0
22	**20.0** [0.79]	**22.85** [0.90]	**23.95** [0.94]	2-1734493-2
24	**22.0** [0.87]	**24.85** [0.98]	**25.95** [1.02]	2-1734493-4
26	**24.0** [0.94]	**26.85** [1.06]	**27.95** [1.10]	2-1734493-6
28	**26.0** [1.02]	**28.85** [1.14]	**29.95** [1.18]	2-1734493-8
30	**28.0** [1.10]	**30.85** [1.21]	**31.95** [1.26]	3-1734493-0
32	**30.0** [1.18]	**32.85** [1.29]	**33.95** [1.34]	3-1734493-2
34	**32.0** [1.26]	**34.85** [1.37]	**35.95** [1.42]	3-1734493-4
36	**34.0** [1.34]	**36.85** [1.45]	**37.95** [1.49]	3-1734493-6
38	**36.0** [1.42]	**38.85** [1.53]	**39.95** [1.57]	3-1734493-8
40	**38.0** [1.50]	**40.85** [1.61]	**41.95** [1.65]	4-1734493-0
42	**40.0** [1.57]	**42.85** [1.69]	**43.95** [1.73]	4-1734493-2
44	**42.0** [1.65]	**44.85** [1.77]	**45.95** [1.81]	4-1734493-4
46	**44.0** [1.73]	**46.85** [1.84]	**47.95** [1.89]	4-1734493-6
48	**46.0** [1.81]	**48.85** [1.92]	**49.95** [1.97]	4-1734493-8
50	**48.0** [1.89]	**50.85** [2.00]	**51.95** [2.05]	5-1734493-0
52	**50.0** [1.97]	**52.85** [2.08]	**53.95** [2.12]	5-1734493-2
54	**52.0** [2.05]	**54.85** [2.16]	**55.95** [2.20]	5-1734493-4
56	**54.0** [2.13]	**56.85** [2.34]	**57.95** [2.28]	5-1734493-6
58	**56.0** [2.20]	**58.85** [2.32]	**59.95** [2.36]	5-1734493-8
60	**58.0** [2.28]	**60.85** [2.40]	**61.95** [2.44]	6-1734493-0
62	**60.0** [2.36]	**62.85** [2.47]	**63.95** [2.52]	6-1734493-2
64	**62.0** [2.44]	**64.85** [2.55]	**65.95** [2.60]	6-1734493-4

Note: All part numbers are RoHS compliant.

Catalog 1307819
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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

2mm Headers, Shrouded, Double Row, Surface Mount, Vertical Mount

0.5 [.02] Square Posts

Material and Finish

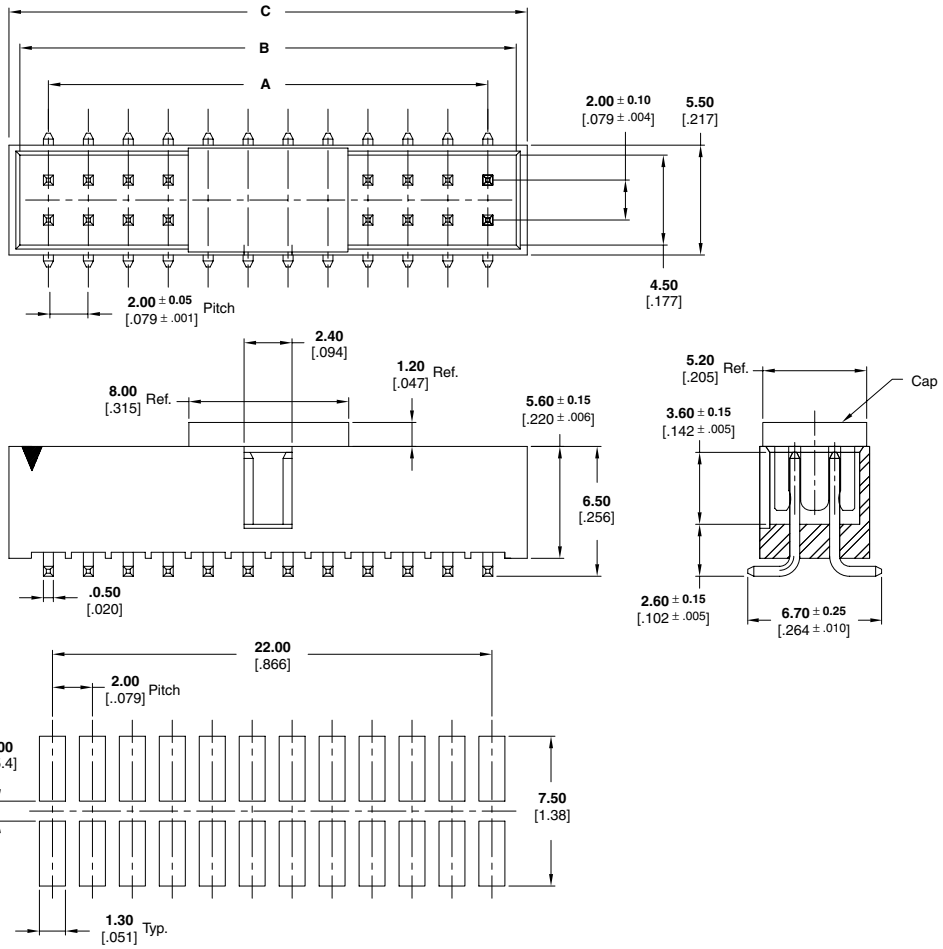
Housing — Black color, PA9T (Nylon 9T), UL 94 V-0 Rated

Posted Contacts — Brass, plated as follows:

0.00076 [.000003] min. gold on contact area, with 0.00254 [.00010] matte tin on soldertails, with entire contact underplated 0.00127 [.000050] min. nickel

Related Product Data

Mateable Receptacles — pages 80, 81, and 84



Recommended PCB Layout

No. of Positions	Dimensions			Part Numbers
	A	B	C	
8	**6.0** [0.24]	**8.85** [0.35]	**9.95** [0.39]	2041068-8
10	**8.0** [0.31]	**10.85** [0.43]	**11.95** [0.47]	1-2041068-0
12	**10.0** [0.39]	**12.85** [0.51]	**13.95** [0.55]	1-2041068-2
14	**12.0** [0.47]	**14.85** [0.58]	**15.95** [0.63]	1-2041068-4
16	**14.0** [0.55]	**16.85** [0.66]	**17.95** [0.71]	1-2041068-6
18	**16.0** [0.63]	**18.85** [0.74]	**19.95** [0.79]	1-2041068-8
20	**18.0** [0.71]	**20.85** [0.82]	**21.95** [0.86]	2-2041068-0
22	**20.0** [0.79]	**22.85** [0.90]	**23.95** [0.94]	2-2041068-2
24	**22.0** [0.87]	**24.85** [0.98]	**25.95** [1.02]	2-2041068-4
26	**24.0** [0.94]	**26.85** [1.06]	**27.95** [1.10]	2-2041068-6
28	**26.0** [1.02]	**28.85** [1.14]	**29.95** [1.18]	2-2041068-8
30	**28.0** [1.10]	**30.85** [1.21]	**31.95** [1.26]	3-2041068-0
32	**30.0** [1.18]	**32.85** [1.29]	**33.95** [1.34]	3-2041068-2
34	**32.0** [1.26]	**34.85** [1.37]	**35.95** [1.42]	3-2041068-4
36	**34.0** [1.34]	**36.85** [1.45]	**37.95** [1.49]	3-2041068-6
38	**36.0** [1.42]	**38.85** [1.53]	**39.95** [1.57]	3-2041068-8
40	**38.0** [1.50]	**40.85** [1.61]	**41.95** [1.65]	4-2041068-0
42	**40.0** [1.57]	**42.85** [1.69]	**43.95** [1.73]	4-2041068-2
44	**42.0** [1.65]	**44.85** [1.77]	**45.95** [1.81]	4-2041068-4
46	**44.0** [1.73]	**46.85** [1.84]	**47.95** [1.89]	4-2041068-6
48	**46.0** [1.81]	**48.85** [1.92]	**49.95** [1.97]	4-2041068-8
50	**48.0** [1.89]	**50.85** [2.00]	**51.95** [2.05]	5-2041068-0

Note: All part numbers are RoHS compliant.

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UK: 44-8706-080-208

2mm Headers, Shrouded, Double Row, Surface Mount, Vertical Mount

(Continued)

0.5 [.02] Square Straight Posts

Material and Finish

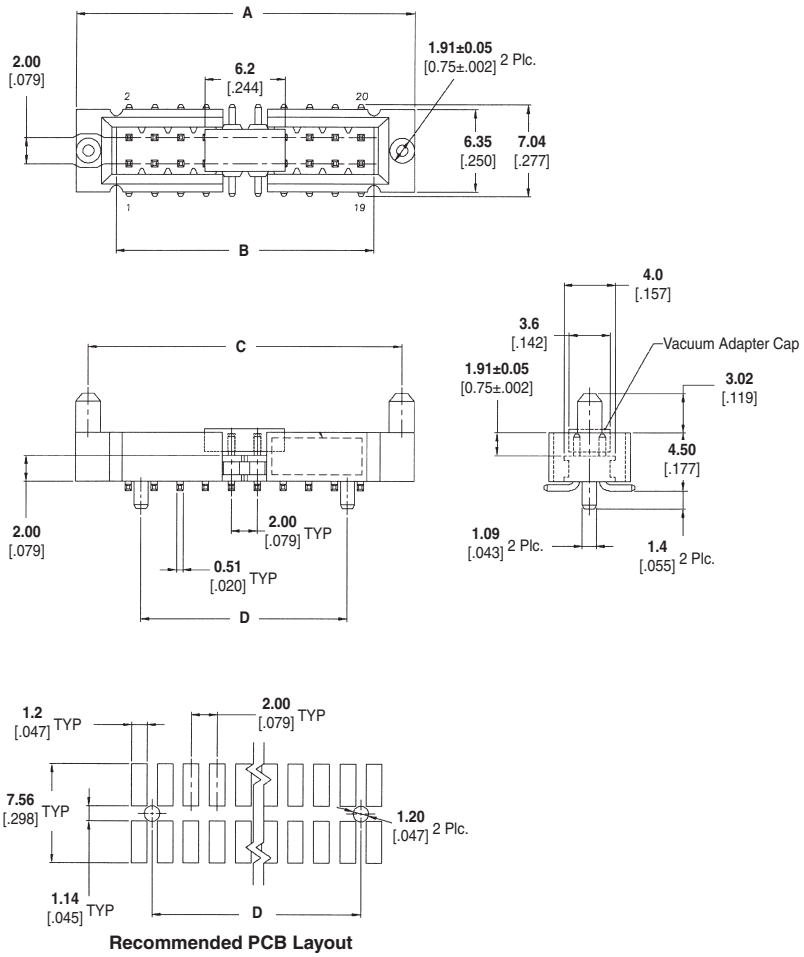
Housing — Black high temperature thermoplastic, UL 94 V-0 Rated

Posted Contacts — Phosphor Bronze, duplex plated as follows:

0.00076[0.000030] min. gold on contact area, 0.00381[.000150] min. tin on solder area, with entire contact underplated 0.00127[.000050] min. nickel

Product Specification
108-57328

Packaging Method — Tape and reel



Recommended PCB Layout

No. of Positions	Dimensions				Part Numbers
	A	B	C	D	
20	**26.2** [1.03]	**20.0** [0.79]	**24.3** [0.96]	**16.0** [.63]	2-1734569-0
30	**36.2** [1.43]	**30.0** [1.18]	**34.3** [1.35]	**26.0** [1.02]	3-1734569-0

Note: All part numbers are RoHS compliant.

Catalog 1307819
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UK: 44-8706-080-208

2mm Headers, Shrouded, Double Row, Thru-Hole, Vertical Mount

0.5 [.02] Square Straight Posts with Cable Shroud

Material and Finish

Housing — Black thermoplastic, UL 94 V-0 Rated

Posted Contacts — Brass, duplex plated as follows:

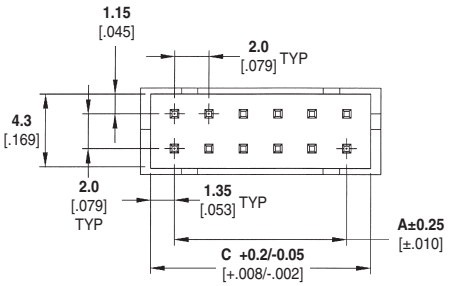
0.00254 [.000100] min. tin on contact area, with entire contact underplated 0.00127 [.000050] min. nickel

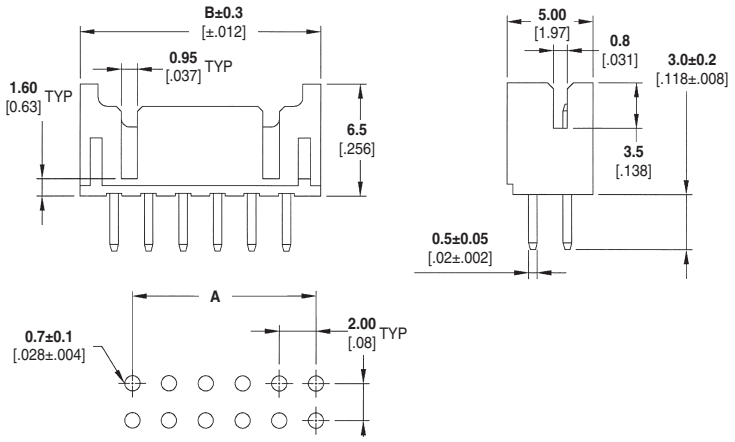
Related Product Data

Mateable Receptacles — See Drawings 1470106 Contacts and 1470107 Housing

Product Specification 108-57217

Packaging Method — Loose piece, bag





Recommended PCB Layout

No. of Position	Dimensions			Part Numbers
	A	B	C	
6	**4.0** [0.16]	**8.0** [0.31]	**6.74** [0.26]	1470109-6
8	**6.0** [0.24]	**10.0** [0.39]	**8.74** [0.34]	1470109-8
10	**8.0** [0.31]	**12.0** [0.47]	**10.74** [0.42]	1-1470109-0
12	**10.0** [0.39]	**14.0** [0.55]	**12.74** [0.50]	1-1470109-2
14	**12.0** [0.47]	**16.0** [0.63]	**14.74** [0.58]	1-1470109-4
16	**14.0** [0.55]	**18.0** [0.71]	**16.74** [0.66]	1-1470109-6
18	**16.0** [0.63]	**20.0** [0.79]	**18.74** [0.74]	1-1470109-8
20	**18.0** [0.71]	**22.0** [0.87]	**20.74** [0.82]	2-1470109-0
22	**20.0** [0.79]	**24.0** [0.94]	**22.74** [0.89]	2-1470109-2
24	**22.0** [0.87]	**26.0** [1.02]	**24.74** [0.97]	2-1470109-4
26	**24.0** [0.94]	**28.0** [1.10]	**26.74** [1.05]	2-1470109-6
28	**26.0** [1.02]	**30.0** [1.18]	**28.74** [1.13]	2-1470109-8
30	**28.0** [1.10]	**32.0** [1.26]	**30.74** [1.21]	3-1470109-0
32	**30.0** [1.18]	**34.0** [1.34]	**32.74** [1.29]	3-1470109-2

Note: All part numbers are RoHS compliant.

Catalog 1307819
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Japan: 81-44-844-8013
UK: 44-8706-080-208

2mm Headers, Shrouded, Double Row, Thru-Hole, Right-Angle Mount

0.5 [.02] Square Right-Angle Posts with Cable Shroud

Material and Finish

Housing — Black thermoplastic, UL 94 V-0 Rated

Posted Contacts — Brass, duplex plated as follows:

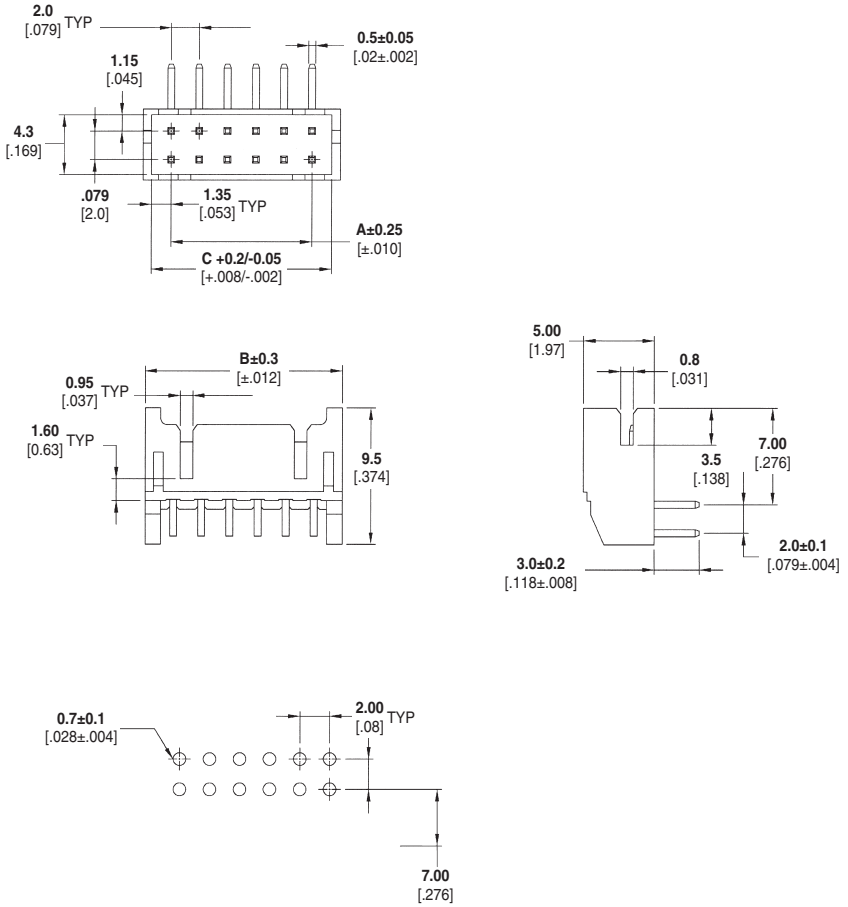
0.00254 [.000100] min. tin on contact area, with entire contact underplated 0.00127 [.000050] min. nickel

Related Product Data

Mateable Receptacles — See Drawings 1470106 Contacts and 1470107 Housing

Product Specification 108-57217

Packaging Method — Loose piece, bag



Recommended PCB Layout

No. of Position	Dimensions			Part Numbers
	A	B	C	
6	**4.0** [0.16]	**8.00** [0.31]	**6.74** [0.26]	1470108-6
8	**6.0** [0.24]	**10.00** [0.39]	**8.74** [0.34]	1470108-8
10	**8.0** [0.32]	**12.00** [0.47]	**10.74** [0.42]	1-1470108-0
12	**10.0** [0.39]	**14.00** [0.55]	**12.74** [0.50]	1-1470108-2
14	**12.0** [0.47]	**16.00** [0.63]	**14.74** [0.58]	1-1470108-4
16	**18.0** [0.71]	**18.00** [0.71]	**16.74** [0.66]	1-1470108-6
18	**14.0** [0.55]	**20.00** [0.79]	**18.74** [0.74]	1-1470108-8
20	**16.0** [0.63]	**22.00** [0.87]	**20.74** [0.82]	2-1470108-0
22	**22.0** [0.87]	**24.00** [0.94]	**22.74** [0.89]	2-1470108-2
24	**20.0** [0.79]	**26.00** [1.02]	**24.74** [0.97]	2-1470108-4
26	**24.0** [0.94]	**28.00** [1.10]	**26.74** [1.05]	2-1470108-6
28	**28.0** [1.10]	**30.00** [1.18]	**28.74** [1.13]	2-1470108-8
30	**26.0** [1.02]	**32.00** [1.26]	**30.74** [1.21]	3-1470108-0
32	**30.0** [1.18]	**34.00** [1.34]	**32.74** [1.29]	3-1470108-2

Note: All part numbers are RoHS compliant.

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UK: 44-8706-080-208

2mm Centerline Receptacles, Double Row, Thru-Hole, Vertical Mount

Receptacle, Thru-Hole, Vertical

Material and Finish

Housing — Black thermoplastic, UL 94 V-0 Rated, 245°C Reflow

Contacts — Copper alloy, plated as follows:

A — 0.00020 [.000008] min. gold on contact area, 0.00203 [.000080] min. tin on solder area, with entire contact underplated 0.00127 [.000050] min. nickel

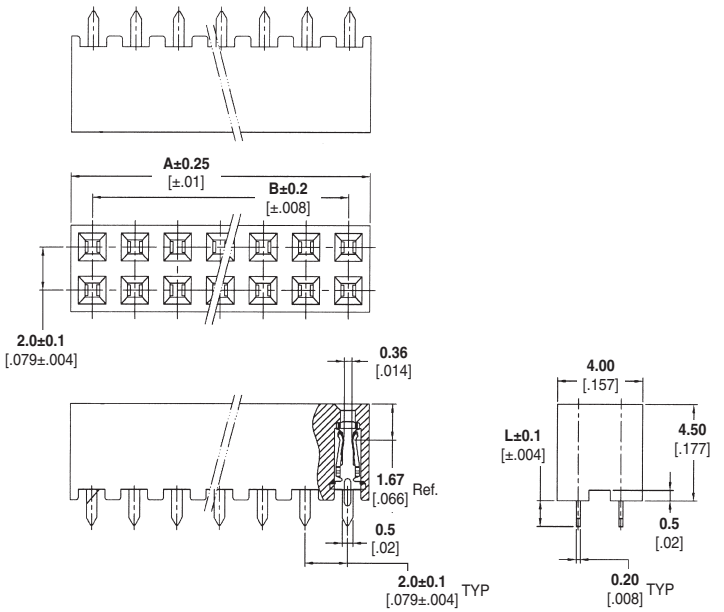
B — 0.00076 [.000030] min. gold on contact area, 0.00203 [.000080] min. tin on solder area, with entire contact underplated 0.00127 [.000050] min. nickel

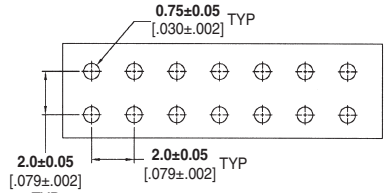
Related Product Data

Mateable Headers — pages 66-76, 78, 79

Product Specification
108-57197

Packaging Method — Tray





Recommended PCB Layout

No. of Positions	Dimensions A	Dimensions B	Part Numbers — Plating A: Dim. L 1.2+/-0.1 (.047+/-.004)	Part Numbers — Plating A: Dim. L 2.6+/-0.1 (.102+/-.004)	Part Numbers — Plating B: Dim. L 1.2+/-0.1 (.047+/-.004)	Part Numbers — Plating B: Dim. L 2.6+/-0.1 (.102+/-.004)
4	**4.0** [.157]	**2.0** [.079]	1470209-1	2-1470209-5	5-1470209-1	7-1470209-5
6	**6.0** [.236]	**4.0** [.157]	1470209-2	2-1470209-6	5-1470209-2	7-1470209-6
8	**8.0** [.315]	**6.0** [.236]	1470209-3	2-1470209-7	5-1470209-3	7-1470209-7
10	**10.0** [.394]	**8.0** [.315]	1470209-4	2-1470209-8	5-1470209-4	7-1470209-8
12	**12.0** [.472]	**10.0** [.394]	1470209-5	2-1470209-9	5-1470209-5	7-1470209-9
14	**14.0** [.551]	**12.0** [.472]	1470209-6	3-1470209-0	5-1470209-6	8-1470209-0
16	**16.0** [.630]	**14.0** [.551]	1470209-7	3-1470209-1	5-1470209-7	8-1470209-1
18	**18.0** [.709]	**16.0** [.630]	1470209-8	3-1470209-2	5-1470209-8	8-1470209-2
20	**20.0** [.787]	**18.0** [.709]	1470209-9	3-1470209-3	5-1470209-9	8-1470209-3
22	**22.0** [.866]	**20.0** [.787]	1-1470209-0	3-1470209-4	6-1470209-0	8-1470209-4
24	**24.0** [.945]	**22.0** [.866]	1-1470209-1	3-1470209-5	6-1470209-1	8-1470209-5
26	**26.0** [1.024]	**24.0** [.945]	1-1470209-2	3-1470209-6	6-1470209-2	8-1470209-6
28	**28.0** [1.102]	**26.0** [1.024]	1-1470209-3	3-1470209-7	6-1470209-3	8-1470209-7
30	**30.0** [1.181]	**28.0** [1.102]	1-1470209-4	3-1470209-8	6-1470209-4	8-1470209-8
32	**32.0** [1.260]	**30.0** [1.181]	1-1470209-5	3-1470209-9	6-1470209-5	8-1470209-9
34	**34.0** [1.339]	**32.0** [1.260]	1-1470209-6	4-1470209-0	6-1470209-6	9-1470209-0
36	**36.0** [1.417]	**34.0** [1.339]	1-1470209-7	4-1470209-1	6-1470209-7	9-1470209-1
38	**38.0** [1.496]	**36.0** [1.417]	1-1470209-8	4-1470209-2	6-1470209-8	9-1470209-2
40	**40.0** [1.575]	**38.0** [1.496]	1-1470209-9	4-1470209-3	6-1470209-9	9-1470209-3
42	**42.0** [1.654]	**40.0** [1.575]	2-1470209-0	4-1470209-4	7-1470209-0	9-1470209-4
44	**44.0** [1.732]	**42.0** [1.654]	2-1470209-1	4-1470209-5	7-1470209-1	9-1470209-5
46	**46.0** [1.811]	**44.0** [1.732]	2-1470209-2	4-1470209-6	7-1470209-2	9-1470209-6
48	**48.0** [1.890]	**46.0** [1.811]	2-1470209-3	4-1470209-7	7-1470209-3	9-1470209-7
50	**50.0** [1.969]	**48.0** [1.890]	2-1470209-4	4-1470209-8	7-1470209-4	9-1470209-8

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UK: 44-8706-080-208

2mm Centerline Receptacles, Double Row, Thru-Hole, Vertical Mount (Continued)

Receptacle, Thru-Hole, Vertical

Material and Finish

Housing — Black thermoplastic, UL 94 V-0 Rated, 265°C Process Capable

Contacts — Copper alloy, plated as follows:

A — 0.00020 [.000008] min. gold on contact area, 0.00203 [.000080] min. tin on solder area, with entire contact underplated 0.00127 [.000050] min. nickel

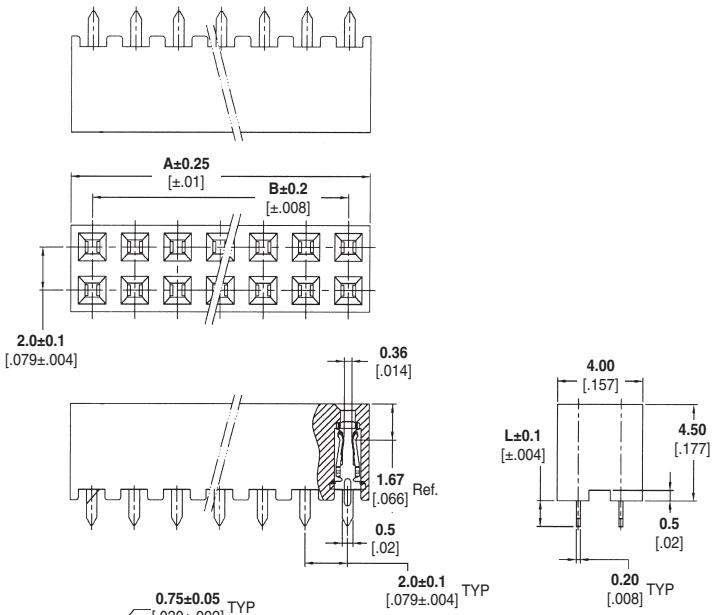
B — 0.00076 [.000030] min. gold on contact area, 0.00203 [.000080] min. tin on solder area, with entire contact underplated 0.00127 [.000050] min. nickel

Related Product Data

Mateable Headers — pages 66-76, 78, 79

Product Specification 108-57197

Packaging Method — Tray



Recommended PCB Layout

No. of Positions	Dimensions A	Dimensions B	Part Numbers Plating A Dim. L 1.2+/-0.1 (.047+/-.004)	Part Numbers Plating A Dim. L 2.6+/-0.1 (.102+/-.004)	Part Numbers Plating B Dim. L 1.2+/-0.1 (.047+/-.004)	Part Numbers Plating B Dim. L 2.6+/-0.1 (.102+/-.004)
4	**4.0** [.157]	**2.0** [.079]	1734506-1	2-1734506-5	5-1734506-1	7-1734506-5
6	**6.0** [.236]	**4.0** [.157]	1734506-2	2-1734506-6	5-1734506-2	7-1734506-6
8	**8.0** [.315]	**6.0** [.236]	1734506-3	2-1734506-7	5-1734506-3	7-1734506-7
10	**10.0** [.394]	**8.0** [.315]	1734506-4	2-1734506-8	5-1734506-4	7-1734506-8
12	**12.0** [.472]	**10.0** [.394]	1734506-5	2-1734506-9	5-1734506-5	7-1734506-9
14	**14.0** [.551]	**12.0** [.472]	1734506-6	3-1734506-0	5-1734506-6	8-1734506-0
16	**16.0** [.630]	**14.0** [.551]	1734506-7	3-1734506-1	5-1734506-7	8-1734506-1
18	**18.0** [.709]	**16.0** [.630]	1734506-8	3-1734506-2	5-1734506-8	8-1734506-2
20	**20.0** [.787]	**18.0** [.709]	1734506-9	3-1734506-3	5-1734506-9	8-1734506-3
22	**22.0** [.866]	**20.0** [.787]	1-1734506-0	3-1734506-4	6-1734506-0	8-1734506-4
24	**24.0** [.945]	**22.0** [.866]	1-1734506-1	3-1734506-5	6-1734506-1	8-1734506-5
26	**26.0** [1.024]	**24.0** [.945]	1-1734506-2	3-1734506-6	6-1734506-2	8-1734506-6
28	**28.0** [1.102]	**26.0** [1.024]	1-1734506-3	3-1734506-7	6-1734506-3	8-1734506-7
30	**30.0** [1.181]	**28.0** [1.102]	1-1734506-4	3-1734506-8	6-1734506-4	8-1734506-8
32	**32.0** [1.260]	**30.0** [1.181]	1-1734506-5	3-1734506-9	6-1734506-5	8-1734506-9
34	**34.0** [1.339]	**32.0** [1.260]	1-1734506-6	4-1734506-0	6-1734506-6	9-1734506-0
36	**36.0** [1.417]	**34.0** [1.339]	1-1734506-7	4-1734506-1	6-1734506-7	9-1734506-1
38	**38.0** [1.496]	**36.0** [1.417]	1-1734506-8	4-1734506-2	6-1734506-8	9-1734506-2
40	**40.0** [1.575]	**38.0** [1.496]	1-1734506-9	4-1734506-3	6-1734506-9	9-1734506-3
42	**42.0** [1.654]	**40.0** [1.575]	2-1734506-0	4-1734506-4	7-1734506-0	9-1734506-4
44	**44.0** [1.732]	**42.0** [1.654]	2-1734506-1	4-1734506-5	7-1734506-1	9-1734506-5
46	**46.0** [1.811]	**44.0** [1.732]	2-1734506-2	4-1734506-6	7-1734506-2	9-1734506-6
48	**48.0** [1.890]	**46.0** [1.811]	2-1734506-3	4-1734506-7	7-1734506-3	9-1734506-7
50	**50.0** [1.969]	**48.0** [1.890]	2-1734506-4	4-1734506-8	7-1734506-4	9-1734506-8
40*	**40.0** [1.575]	**38.0** [1.496]	—	4-1734506-9	—	9-1734506-9

*Keying position 6.

Note: All part numbers are RoHS compliant.

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South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

2mm Receptacle, Double Row, Surface Mount, Right-Angle Mount

Receptacle, Surface Mount, Right-Angle

Material and Finish

Housing — Black Thermoplastic, UL 94V-0 Rated

Contact — Phosphor Bronze

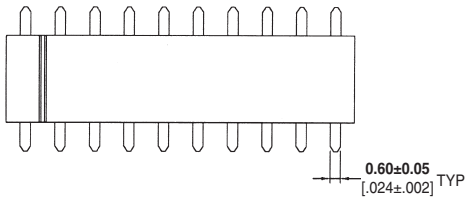
Contact Finish — 0.00020 [.000008] Min. Gold Plated on Contact Area, 0.00229 [.000090] Min. Tin Plated on Solder Tail, 0.00127 [.000050] Min. Nickel Underplated Over All

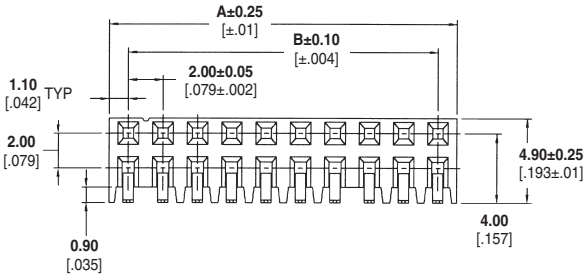
Related Product Data

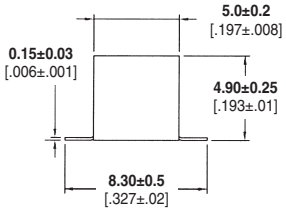
Mateable Headers — pages 66-73

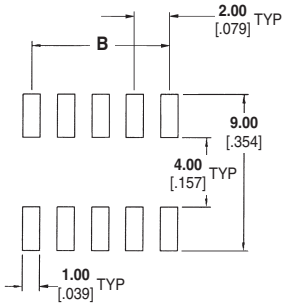
Product Specification 108-57197

Packaging Method — Tape and reel









Recommended PCB Layout

Position	Dimensions A	Dimensions B	Part Numbers
6	**6.20** [.244]	**4.0** [.157]	1734606-6
8	**8.20** [.323]	**6.0** [.236]	1734606-8
10	**10.20** [.402]	**8.0** [.315]	1-1734606-0
12	**12.20** [.480]	**10.0** [.394]	1-1734606-2
14	**14.20** [.559]	**12.0** [.472]	1-1734606-4
16	**16.20** [.638]	**14.0** [.551]	1-1734606-6
18	**18.20** [.717]	**16.0** [.630]	1-1734606-8
20	**20.20** [.795]	**18.0** [.709]	2-1734606-0
22	**22.20** [.874]	**20.0** [.787]	2-1734606-2
24	**24.20** [.953]	**22.0** [.866]	2-1734606-4
26	**26.20** [1.031]	**24.0** [.945]	2-1734606-6
28	**28.20** [1.110]	**26.0** [1.024]	2-1734606-8
30	**30.20** [1.189]	**28.0** [1.102]	3-1734606-0
32	**32.20** [1.268]	**30.0** [1.181]	3-1734606-2
34	**34.20** [1.346]	**32.0** [1.260]	3-1734606-4
36	**36.20** [1.425]	**34.0** [1.339]	3-1734606-6
38	**38.20** [1.504]	**36.0** [1.417]	3-1734606-8
40	**40.20** [1.583]	**38.0** [1.496]	4-1734606-0
42	**42.20** [1.661]	**40.0** [1.575]	4-1734606-2
44	**44.20** [1.740]	**42.0** [1.654]	4-1734606-4
46	**46.20** [1.819]	**44.0** [1.732]	4-1734606-6
48	**48.20** [1.898]	**46.0** [1.811]	4-1734606-8
50	**50.20** [1.976]	**48.0** [1.890]	5-1734606-0

Note: All part numbers are RoHS compliant.

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South America: 55-11-2103-6000
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

2mm Receptacle, Double Row, Thru-Hole, Right-Angle

Receptacle, Thru-Hole, Right-Angle

Material and Finish

Housing — Black Thermoplastic, UL 94V-0 Rated

Contact — Phosphor Bronze

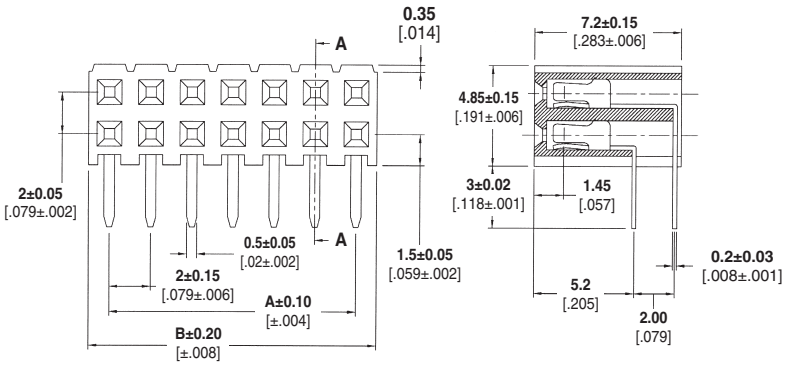
Contact Finish — 0.00020 [.000008] Min. Gold Plated on Contact Area, 0.00254 [.000100] Min. Tin Plated on Solder Tail, 0.00127 [.000050] Min. Nickel Underplated Over All

Related Product Data

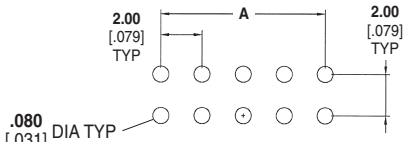
Mateable Headers — pages 66-73

Product Specification
108-57197

Packaging Method — Tube



Section A-A



Recommended PCB Layout

Position	Dimensions		Part Numbers
	A	B	
8	**6.0** [.236]	**8.50** [.335]	1734531-8
10	**8.0** [.315]	**10.50** [.413]	1-1734531-0
12	**10.0** [.394]	**12.50** [.492]	1-1734531-2
14	**12.0** [.472]	**14.50** [.571]	1-1734531-4
16	**14.0** [.551]	**16.50** [.650]	1-1734531-6
18	**16.0** [.630]	**18.50** [.728]	1-1734531-8
20	**18.0** [.709]	**20.50** [.807]	2-1734531-0
22	**20.0** [.787]	**22.50** [.886]	2-1734531-2
24	**22.0** [.866]	**24.50** [.965]	2-1734531-4
26	**24.0** [.945]	**26.50** [1.043]	2-1734531-6
28	**26.0** [1.024]	**28.50** [1.122]	2-1734531-8
30	**28.0** [1.102]	**30.50** [1.201]	3-1734531-0
32	**30.0** [1.181]	**32.50** [1.280]	3-1734531-2
34	**32.0** [1.260]	**34.50** [1.358]	3-1734531-4
36	**34.0** [1.339]	**36.50** [1.437]	3-1734531-6
38	**36.0** [1.417]	**38.50** [1.516]	3-1734531-8
40	**38.0** [1.496]	**40.50** [1.594]	4-1734531-0
42	**40.0** [1.575]	**42.50** [1.673]	4-1734531-2
44	**42.0** [1.654]	**44.50** [1.752]	4-1734531-4
46	**44.0** [1.732]	**46.50** [1.831]	4-1734531-6
48	**46.0** [1.811]	**48.50** [1.909]	4-1734531-8
50	**48.0** [1.890]	**50.50** [1.988]	5-1734531-0
52	**50.0** [1.969]	**52.50** [2.067]	5-1734531-2
54	**52.0** [2.047]	**54.50** [2.146]	5-1734531-4
56	**54.0** [2.123]	**56.50** [2.224]	5-1734531-6
58	**56.0** [2.205]	**58.50** [2.303]	5-1734531-8
60	**58.0** [2.283]	**60.50** [2.381]	6-1734531-0
62	**60.0** [2.362]	**62.50** [2.461]	6-1734531-2
64	**62.0** [2.441]	**64.50** [2.539]	6-1734531-4
66	**64.0** [2.520]	**66.50** [2.618]	6-1734531-6
68	**66.0** [2.598]	**68.50** [2.697]	6-1734531-8
70	**68.0** [2.677]	**70.50** [2.776]	7-1734531-0
72	**70.0** [2.756]	**72.50** [2.854]	7-1734531-2
74	**72.0** [2.834]	**74.50** [2.933]	7-1734531-4
76	**74.0** [2.913]	**76.50** [3.012]	7-1734531-6
78	**76.0** [2.992]	**78.50** [3.091]	7-1734531-8
80	**78.0** [3.071]	**80.50** [3.169]	8-1734531-0

Note: All part numbers are RoHS compliant.

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Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-8706-080-208

2mm Receptacle, Double Row, Surface Mount, Vertical Mount

Receptacle, Top Entry, Surface Mount

Material and Finish

Housing—Black Thermoplastic, UL 94V-0 Rated

Contact—Copper Alloy, plated 0.00076 [.000030] Min. Gold Plated on Contact Area, 0.00254 [.000100] Tin Plated on Solder Tail, Underplated 0.00127 [.000050] Nickel

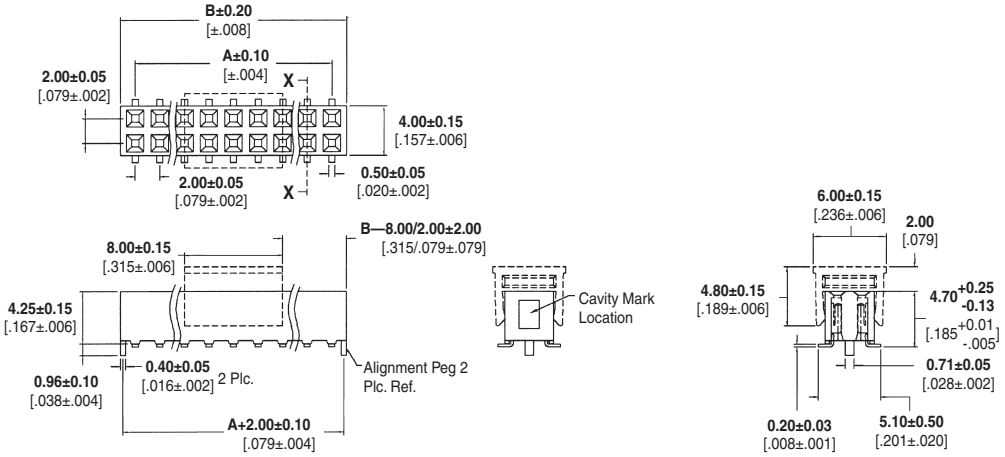
Cap—Thermoplastic

Related Product Data

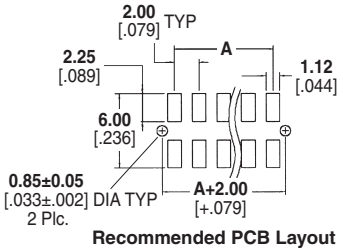
Mateable Headers—pages 66-75, 78, 79

Product Specification
108-57227

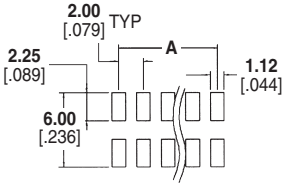
Packaging Method—Tape and reel



1a 1b



Recommended PCB Layout



Recommended PCB Layout (Without Alignment Peg)

Position	Dimensions A	Dimensions B	245C Reflow Part Numbers with Alignment Peg*	245C Reflow Part Numbers without Alignment Peg	265C Reflow Part Numbers with Alignment Peg*	265C Reflow Part Numbers without Alignment Peg
8	**6.0** [.236]	**8.40** [.331]	1734516-8	5-1734516-8	2041069-8	5-2041069-8
10	**8.0** [.315]	**10.40** [.409]	1-1734516-0	6-1734516-0	1-2041069-0	6-2041069-0
12	**10.0** [.394]	**12.40** [.488]	1-1734516-2	6-1734516-2	1-2041069-2	6-2041069-2
14	**12.0** [.472]	**14.40** [.567]	1-1734516-4	6-1734516-4	1-2041069-4	6-2041069-4
16	**14.0** [.551]	**16.40** [.646]	1-1734516-6	6-1734516-6	1-2041069-6	6-2041069-6
18	**16.0** [.630]	**18.40** [.724]	1-1734516-8	6-1734516-8	1-2041069-8	6-2041069-8
20	**18.0** [.709]	**20.40** [.803]	2-1734516-0	7-1734516-0	2-2041069-0	7-2041069-0
22	**20.0** [.787]	**22.40** [.881]	2-1734516-2	7-1734516-2	2-2041069-2	7-2041069-2
24	**22.0** [.866]	**24.40** [.961]	2-1734516-4	7-1734516-4	2-2041069-4	7-2041069-4
26	**24.0** [.945]	**26.40** [1.039]	2-1734516-6	7-1734516-6	2-2041069-6	7-2041069-6
28	**26.0** [1.024]	**28.40** [1.118]	2-1734516-8	7-1734516-8	2-2041069-8	7-2041069-8
30	**28.0** [1.102]	**30.40** [1.197]	3-1734516-0	8-1734516-0	3-2041069-0	8-2041069-0
32	**30.0** [1.181]	**32.40** [1.276]	3-1734516-2	8-1734516-2	3-2041069-2	8-2041069-2
34	**32.0** [1.260]	**34.40** [1.354]	3-1734516-4	8-1734516-4	3-2041069-4	8-2041069-4
36	**34.0** [1.339]	**36.40** [1.433]	3-1734516-6	8-1734516-6	3-2041069-6	8-2041069-6
38	**36.0** [1.417]	**38.40** [1.512]	3-1734516-8	8-1734516-8	3-2041069-8	8-2041069-7
40	**38.0** [1.496]	**40.40** [1.591]	4-1734516-0	9-1734516-0	4-2041069-0	9-2041069-0

*See views 1a and 1b

Note: All part numbers are RoHS compliant.

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