0.8mm Free Height (FH) Connectors

Product Facts

- **For parallel board stacking applications**
- **High density packaging on 0.8 [.031] centerline spacing**
- **Available sizes from 40 to 200 positions (in 20 position increments)**
- **Board stacking heights available from 5 [.197] to 16 [.630] (in 1 [.039] increments)**
- **Bellows type spring contacts are resistant to scooping and stubbing during mating and unmating**
- **Positioning bosses for proper on-board orientation**
- **Available packaged on "tape-and-reel" for automatic placement per EIA standards**
- **Recognized under the Component Program of Underwriter Laboratories Inc., File No. E28476**

Tyco Electronics 0.8mm FH surface-mount connectors are designed for parallel board stacking applications using subminiature connectors to meet today's electronic industry requirements for high density packaging.

It is possible to save more than 50% of the required board space when compared to conventional 1.27 [.050] centerline connectors.

0.8mm FH connectors are ideally suited for application downsizing, such as notebook PCs, pen pads, cellular telephones and other electronic equipment requiring miniature connector packaging.

Vertical board-mount plugs and receptacles are available. By mating combinations of plug and receptacle housing heights, board-to-board stacking heights from 5 [.197] to 16 [.630] (in 1 [.039] increments) can be achieved.

The receptacles are preloaded with the Tyco Electronics unique bellows-type spring contacts for reliable electrical connection with the plugs.

In addition, right angle plugs are available which mate to standard receptacles.

Performance Characteristics

Voltage Rating — 100 VAC

Current Rating — 0.5 ampere

Contact Resistance — 30 milliohms max. (initial)

Dielectric Withstanding Voltage — 500 VAC (1 minute)

Operating Temperature — -40°C to +85°C (Including terminal temperature rise)

Catalog 889092
Revised 9-06
www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are standard 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: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

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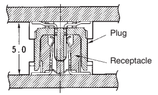
0.8mm Free Height (FH) Connectors (Continued)

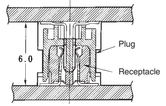
Board-to-Board Stacking Heights (By Plug/Receptacle Combinations)

Part No.: 5177984-□
(Page 74)



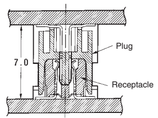
Part No.: 5177983-□
(Page 78)
5 [.197] Stacking Height

Part No.: 5179029-□
(Page 75)



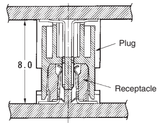
Part No.: 5177983-□
(Page 78)
6 [.236] Stacking Height

Part No.: 5179030-□
(Page 76)



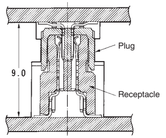
Part No.: 5177983-□
(Page 78)
7 [.276] Stacking Height

Part No.: 5179031-□
(Page 77)



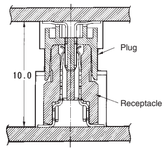
Part No.: 5177983-□
(Page 78)
8 [.315] Stacking Height

Part No.: 5177984-□
(Page 74)



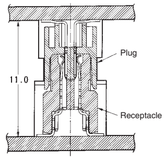
Part No.: 5-5179009-□
(Page 79)
9 [.354] Stacking Height

Part No.: 5179029-□
(Page 75)



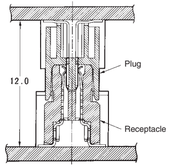
Part No.: 5-5179009-□
(Page 79)
10 [.394] Stacking Height

Part No.: 5179030-□
(Page 76)



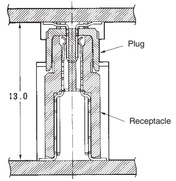
Part No.: 5-5179009-□
(Page 79)
11 [.433] Stacking Height

Part No.: 5179031-□
(Page 77)



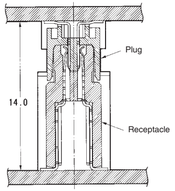
Part No.: 5-5179009-□
(Page 79)
12 [.472] Stacking Height

Part No.: 5177984-□
(Page 74)



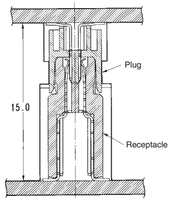
Part No.: 5-5179010-□
(Page 80)
13 [.512] Stacking Height

Part No.: 5179029-□
(Page 75)



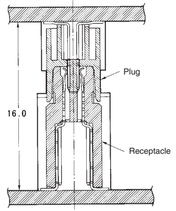
Part No.: 5-5179010-□
(Page 80)
14 [.551] Stacking Height

Part No.: 5179030-□
(Page 76)



Part No.: 5-5179010-□
(Page 80)
15 [.591] Stacking Height

Part No.: 5179031-□
(Page 77)



Part No.: 5-5179010-□
(Page 80)
16 [.630] Stacking Height

Notes: For specific dash nos. of sizes 40 to 200 positions (in 20-position increments), see pages 73 thru 81.
Part Numbers are RoHS compliant.

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0.8mm Free Height (FH) Connectors (Continued)

0.8mm Product Tree

Gender	Height	Plating Au Thickness	Package Type	Pickup Cap	40 Pos.	60 Pos.	80 Pos.	100 Pos.	120 Pos.	140 Pos.	160 Pos.	180 Pos.	200 Pos.
Rcpt.	5H	8µ*	Tube	No	5177983-1	5177983-2	5177983-3	5177983-4	5177983-5	5177983-6	5177983-8	5177983-9	1-5177983-0
			Tube	Yes	5179229-1	5179229-2	5179229-3	5179229-4	5179229-5	5179229-6	5179229-8	5179229-9	1-5179229-0
			Tape and Reel	Yes	5177985-1	5177985-2	5177985-3	5177985-4	5177985-5	5177985-6	5177985-8	—	—
		30µ*	Tube	No	6123000-1	6123000-2	6123000-3	6123000-4	6123000-5	6123000-6	6123000-8	6123000-9	1-6123000-0
			Tube	Yes	—	—	—	—	—	—	—	—	—
			Tape and Reel	Yes	5353999-1	5353999-2	5353999-3	5353999-4	5353999-5	5353999-6	5353999-8	—	—
	9H	8µ*	Tube	No	5-5179009-1	5-5179009-2	5-5179009-3	5-5179009-4	5-5179009-5	5-5179009-6	5-5179009-8	5-5179009-9	6-5179009-0
			Tube	Yes	—	5-5179232-2	5-5179232-3	5-5179232-4	5-5179232-5	5-5179232-6	5-5179232-8	5-5179232-9	6-5179232-0
			Tape and Reel	Yes	5-5179180-1	5-5179180-2	5-5179180-3	5-5179180-4	5-5179180-5	5-5179180-6	—	—	—
		30µ*	Tube	No	5084613-1	5084613-2	5084613-3	5084613-4	5084613-5	5084613-6	5084613-8	5084613-9	1-5084613-0
			Tube	Yes	—	—	—	—	—	—	—	—	—
			Tape and Reel	Yes	7-5179180-1	7-5179180-2	7-5179180-3	7-5179180-4	7-5179180-5	7-5179180-6	—	—	—
	13H	8µ*	Tube	No	5-5179010-1	5-5179010-2	5-5179010-3	5-5179010-4	5-5179010-5	5-5179010-6	5-5179010-8	5-5179010-9	6-5179010-0
			Tube	Yes	5-5179233-1	5-5179233-2	5-5179233-3	5-5179233-4	5-5179233-5	5-5179233-6	5-5179233-8	5-5179233-9	6-5179233-0
			Tape and Reel	Yes	5084616-1	5084616-2	5084616-3	5084616-4	5084616-5	5084616-6	5084616-8	5084616-9	—
		30µ*	Tube	No	5-6123212-1	5-6123212-2	5-6123212-3	5-6123212-4	5-6123212-5	5-6123212-6	5-6123212-8	5-6123212-9	6-6123212-0
			Tube	Yes	—	—	—	—	—	—	—	—	7-6123212-0
			Tape and Reel	Yes	5084618-1	5084618-2	5084618-3	5084618-4	5084618-5	5084618-6	5084618-8	5084618-9	—
Plug	5H	8µ*	Tube	No	5177984-1	5177984-2	5177984-3	5177984-4	5177984-5	5177984-6	5177984-8	5177984-9	1-5177984-0
			Tube	Yes	5179230-1	5179230-2	5179230-3	5179230-4	5179230-5	5179230-6	5179230-8	5179230-9	1-5179230-0
			Tape and Reel	Yes	5177986-1	5177986-2	5177986-3	5177986-4	5177986-5	5177986-6	5177986-8	—	—
		30µ*	Tube	No	5084614-1	5084614-2	5084614-3	5084614-4	5084614-5	5084614-6	5084614-8	5084614-9	1-5084614-0
			Tube	Yes	—	—	—	—	—	—	—	—	—
			Tape and Reel	Yes	5-5177986-1	5-5177986-2	5-5177986-3	5-5177986-4	5-5177986-5	5-5177986-6	5-5177986-8	—	—
	6H	8µ*	Tube	No	5179029-1	5179029-2	5179029-3	5179029-4	5179029-5	5179029-6	5179029-8	5179029-9	1-5179029-0
			Tube	Yes	2-5179230-1	2-5179230-2	2-5179230-3	2-5179230-4	2-5179230-5	2-5179230-6	2-5179230-8	2-5179230-9	3-5179230-0
			Tape and Reel	Yes	1-5177986-1	1-5177986-2	1-5177986-3	1-5177986-4	1-5177986-5	1-5177986-6	—	—	—
		30µ*	Tube	No	5084615-1	5084615-2	5084615-3	5084615-4	5084615-5	5084615-6	5084615-8	5084615-9	1-5084615-0
			Tube	Yes	—	—	—	—	—	—	1-5084615-8	1-5084615-9	2-5084615-0
			Tape and Reel	Yes	6-5177986-1	6-5177986-2	6-5177986-3	6-5177986-4	6-5177986-5	6-5177986-6	—	—	—
	7H	8µ*	Tube	No	5179030-1	5179030-2	5179030-3	5179030-4	5179030-5	5179030-6	5179030-8	5179030-9	1-5179030-0
			Tube	Yes	4-5179230-1	4-5179230-2	4-5179230-3	4-5179230-4	4-5179230-5	4-5179230-6	4-5179230-8	4-5179230-9	5-5179230-0
			Tape and Reel	Yes	2-5177986-1	2-5177986-2	2-5177986-3	2-5177986-4	2-5177986-5	2-5177986-6	—	—	—
		30µ*	Tube	No	1-5179030-1	1-5179030-2	1-5179030-3	1-5179030-4	1-5179030-5	1-5179030-6	1-5179030-8	1-5179030-9	2-5179030-0
			Tube	Yes	2-5179030-1	2-5179030-2	2-5179030-3	2-5179030-4	2-5179030-5	2-5179030-6	2-5179030-8	2-5179030-9	3-5179030-0
			Tape and Reel	Yes	—	—	—	—	—	—	—	—	—
	8H	8µ*	Tube	No	5179031-1	5179031-2	5179031-3	5179031-4	5179031-5	5179031-6	5179031-8	5179031-9	1-5179031-0
			Tube	Yes	6-5179230-1	6-5179230-2	6-5179230-3	6-5179230-4	6-5179230-5	6-5179230-6	6-5179230-8	6-5179230-9	7-5179230-0
			Tape and Reel	Yes	3-5177986-1	3-5177986-2	3-5177986-3	3-5177986-4	3-5177986-5	3-5177986-6	3-5177986-8	3-5177986-9	—
		30µ*	Tube	No	6123002-1	6123002-2	6123002-3	6123002-4	6123002-5	6123002-6	6123002-8	6123002-9	1-6123002-0
			Tube	Yes	—	—	—	—	—	—	—	—	—
			Tape and Reel	Yes	6123001-1	6123001-2	6123001-3	6123001-4	6123001-5	6123001-6	6123001-8	6123001-9	—
	R/A	8µ*	Tube	No	—	316229-3	316229-2	—	—	—	—	—	—

Stack Height = [(Rcpt. Height + Plug Height) - 5]
example: [(13H Rcpt.+ 8H Plug) - 5] = [(13 + 6) - 5] = 14mm stack height
Note: Part Numbers are RoHS compliant.

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are standard 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: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

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0.8mm Free Height Vertical Plugs, 0.8 [.031] Pitch

5mm Plugs for 5 [.197], 9 [.354] and 13 [.512] Stacking Heights

Material and Finish

Housing — High temperature thermoplastic, natural color, 94V-0 rated

Contacts — Brass; duplex plated 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

Related Product Data

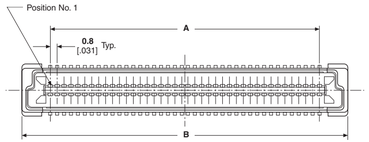
Performance Characteristics — page 71

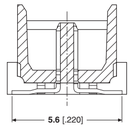
Stacking Height Combinations — page 72

Mating Receptacles — pages 78 thru 80

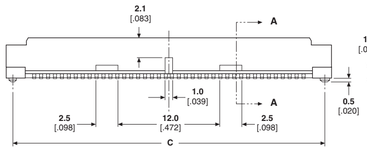
Technical Documents (page 113)

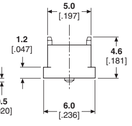
Product Specification
108-5390

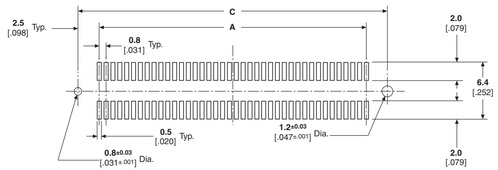




Section A - A







Recommended PC Board Layout

Dimensions A	Dimensions B	Dimensions C	No. of Positions	Plating Type	Part Numbers Tube	Part Numbers Tube w/ Pickup Cap	Part Numbers Tape and Reel
15.20 .598	**21.80** .858	**20.20** .795	40	8µ" Au	5177984-1	5179230-1	5177986-1
				30µ" Au	5084614-1	—	5-5177986-1
23.20 .913	**29.80** 1.173	**28.20** 1.110	60	8µ" Au	5177984-2	5179230-2	5177986-2
				30µ" Au	5084614-2	—	5-5177986-2
31.20 1.228	**37.80** 1.488	**36.20** 1.425	80	8µ" Au	5177984-3	5179230-3	5177986-3
				30µ" Au	5084614-3	—	5-5177986-3
39.20 1.543	**45.80** 1.803	**44.20** 1.740	100	8µ" Au	5177984-4	5179230-4	5177986-4
				30µ" Au	5084614-4	—	5-5177986-4
47.20 1.858	**53.80** 2.118	**52.20** 2.055	120	8µ" Au	5177984-5	5179230-5	5177986-5
				30µ" Au	5084614-5	—	5-5177986-5
55.20 2.173	**61.80** 2.433	**60.20** 2.370	140	8µ" Au	5177984-6	5179230-6	5177986-6
				30µ" Au	5084614-6	—	5-5177986-6
63.20 2.488	**69.80** 2.748	**68.20** 2.685	160	8µ" Au	5177984-8	5179230-8	5177986-8
				30µ" Au	5084614-8	—	5-5177986-8
71.20 2.803	**77.80** 3.063	**76.20** 3.000	180	8µ" Au	5177984-9	5179230-9	—
				30µ" Au	5084614-9	—	—
79.20 3.118	**85.80** 3.378	**84.20** 3.315	200	8µ" Au	1-5177984-0	1-5179230-0	—
				30µ" Au	1-5084614-0	—	—

Note: Part Numbers are RoHS compliant.

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

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

USA: 1-800-522-6752
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Mexico: 01-800-733-8926
C. America: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

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0.8mm Free Height Vertical Plugs, 0.8 [.031] Pitch (Continued)

6mm Plugs for 6 [.236], 10 [.394] and 14 [.551] Stacking Heights

Material and Finish

Housing — High temperature thermoplastic, natural color, 94V-0 rated

Contacts — Brass; duplex plated 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

Related Product Data

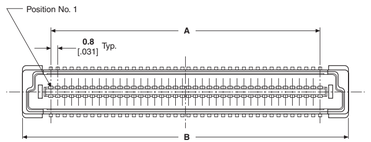
Performance Characteristics — page 71

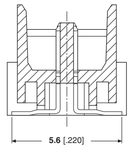
Stacking Height Combinations — page 72

Mating Receptacles — pages 78 thru 80

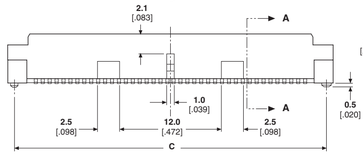
Technical Documents (page 113)

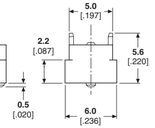
Product Specification
108-5390

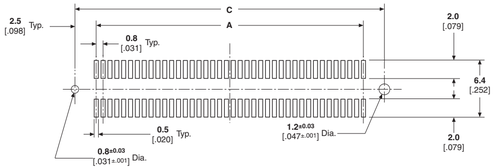




Section A - A







Recommended PC Board Layout

Dimensions A	Dimensions B	Dimensions C	No. of Positions	Plating Type	Part Numbers Tube	Part Numbers Tube w/ Pickup Cap	Part Numbers Tape and Reel
15.20 .598	**21.80** .858	**20.20** .795	40	8µ" Au	5179029-1	2-5179230-1	1-5177986-1
				30µ" Au	5084615-1	—	6-5177986-1
23.20 .913	**29.80** 1.173	**28.20** 1.110	60	8µ" Au	5179029-2	2-5179230-2	1-5177986-2
				30µ" Au	5084615-2	—	6-5177986-2
31.20 1.228	**37.80** 1.488	**36.20** 1.425	80	8µ" Au	5179029-3	2-5179230-3	1-5177986-3
				30µ" Au	5084615-3	—	6-5177986-3
39.20 1.543	**45.80** 1.803	**44.20** 1.740	100	8µ" Au	5179029-4	2-5179230-4	1-5177986-4
				30µ" Au	5084615-4	—	6-5177986-4
47.20 1.858	**53.80** 2.118	**52.20** 2.055	120	8µ" Au	5179029-5	2-5179230-5	1-5177986-5
				30µ" Au	5084615-5	—	6-5177986-5
55.20 2.173	**61.80** 2.433	**60.20** 2.370	140	8µ" Au	5179029-6	2-5179230-6	1-5177986-6
				30µ" Au	5084615-6	—	6-5177986-6
63.20 2.488	**69.80** 2.748	**68.20** 2.685	160	8µ" Au	5179029-8	2-5179230-8	—
				30µ" Au	5084615-8	1-5084615-8	—
71.20 2.803	**77.80** 3.063	**76.20** 3.000	180	8µ" Au	5179029-9	2-5179230-9	—
				30µ" Au	5084615-9	1-5084615-9	—
79.20 3.118	**85.80** 3.378	**84.20** 3.315	200	8µ" Au	1-5179029-0	3-5179230-0	—
				30µ" Au	1-5084615-9	2-5084615-0	—

Note: Part Numbers are RoHS compliant.

Catalog 889092
Revised 9-06
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Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are standard equivalents.

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South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Downloaded from Arrow.com.

0.8mm Free Height Vertical Plugs, 0.8 [.031] Pitch (Continued)

7mm Plugs for 7 [.276], 11 [.433] and 15 [.591] Stacking Heights

Material and Finish

Housing — High temperature thermoplastic, natural color, 94V-0 rated

Contacts — Brass; duplex plated 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

Related Product Data

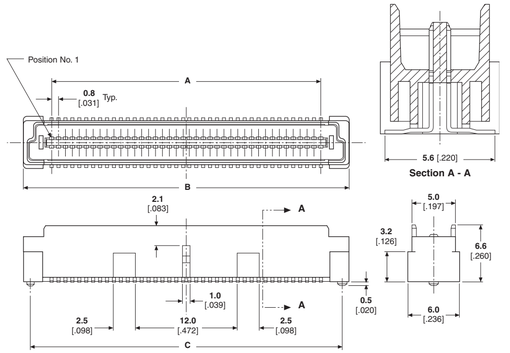
Performance Characteristics — page 71

Stacking Height Combinations — page 72

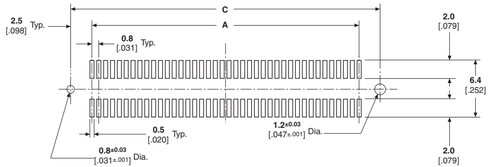
Mating Receptacles — pages 78 thru 80

Technical Documents (page 113)

Product Specification
108-5390



Section A - A



Recommended PC Board Layout

Dimensions A	Dimensions B	Dimensions C	No. of Positions	Plating Type	Part Numbers Tube	Part Numbers Tube w/ Pickup Cap	Part Numbers Tape and Reel
15.20 .598	**21.80** .858	**20.20** .795	40	8µ" Au	5179030-1	4-5179230-1	2-5177986-1
				30µ" Au	1-5179030-1	2-5179030-1	—
23.20 .913	**29.80** 1.173	**28.20** 1.110	60	8µ" Au	5179030-2	4-5179230-2	2-5177986-2
				30µ" Au	1-5179030-2	2-5179030-2	—
31.20 1.228	**37.80** 1.488	**36.20** 1.425	80	8µ" Au	5179030-3	4-5179230-3	2-5177986-3
				30µ" Au	1-5179030-3	2-5179030-3	—
39.20 1.543	**45.80** 1.803	**44.20** 1.740	100	8µ" Au	5179030-4	4-5179230-4	2-5177986-4
				30µ" Au	1-5179030-4	2-5179030-4	—
47.20 1.858	**53.80** 2.118	**52.20** 2.055	120	8µ" Au	5179030-5	4-5179230-5	2-5177986-5
				30µ" Au	1-5179030-5	2-5179030-5	—
55.20 2.173	**61.80** 2.433	**60.20** 2.370	140	8µ" Au	5179030-6	4-5179230-6	2-5177986-6
				30µ" Au	1-5179030-6	2-5179030-6	—
63.20 2.488	**69.80** 2.748	**68.20** 2.685	160	8µ" Au	5179030-8	4-5179230-8	2-5177986-8
				30µ" Au	1-5179030-8	2-5179030-8	—
71.20 2.803	**77.80** 3.063	**76.20** 3.000	180	8µ" Au	5179030-9	4-5179230-9	2-5177986-9
				30µ" Au	1-5179030-9	2-5179030-9	—
79.20 3.118	**85.80** 3.378	**84.20** 3.315	200	8µ" Au	1-5179030-0	5-5179230-0	3-5177986-0
				30µ" Au	2-5179030-0	3-5179030-0	—

Note: Part Numbers are RoHS compliant.

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South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

Downloaded from Arrow.com.

0.8mm Free Height Vertical Plugs, 0.8 [.031] Pitch (Continued)

8mm Plugs for 8 [.315], 12 [.472] and 16 [.630] Stacking Heights

Material and Finish

Housing — High temperature thermoplastic, natural color, 94V-0 rated

Contacts — Brass; duplex plated 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

Related Product Data

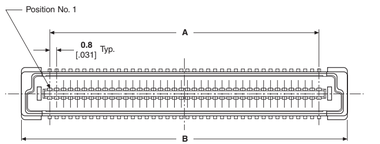
Performance Characteristics — page 71

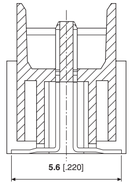
Stacking Height Combinations — page 72

Mating Receptacles — pages 78 thru 80

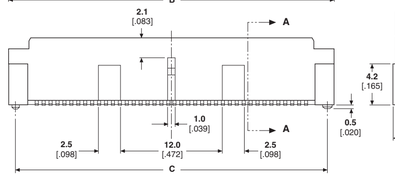
Technical Documents (page 113)

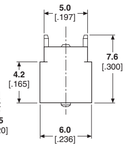
Product Specification
108-5390

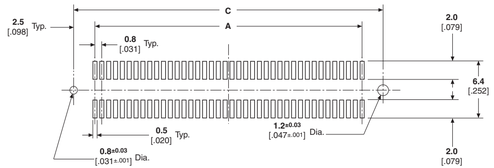




Section A - A







Recommended PC Board Layout

Dimensions			No. of Positions	Plating Type	Part Numbers		
A	B	C			Tube	Tube w/ Pickup Cap	Tape and Reel
15.20 .598	**21.80** .858	**20.20** .795	40	8µ" Au	5179031-1	6-5179230-1	3-5177986-1
				30µ" Au	6123002-1	—	6123001-1
23.20 .913	**29.80** 1.173	**28.20** 1.110	60	8µ" Au	5179031-2	6-5179230-2	3-5177986-2
				30µ" Au	6123002-2	—	6123001-2
31.20 1.228	**37.80** 1.488	**36.20** 1.425	80	8µ" Au	5179031-3	6-5179230-3	3-5177986-3
				30µ" Au	6123002-3	—	6123001-3
39.20 1.543	**45.80** 1.803	**44.20** 1.740	100	8µ" Au	5179031-4	6-5179230-4	3-5177986-4
				30µ" Au	6123002-4	—	6123001-4
47.20 1.858	**53.80** 2.118	**52.20** 2.055	120	8µ" Au	5179031-5	6-5179230-5	3-5177986-5
				30µ" Au	6123002-5	—	6123001-5
55.20 2.173	**61.80** 2.433	**60.20** 2.370	140	8µ" Au	5179031-6	6-5179230-6	3-5177986-6
				30µ" Au	6123002-6	—	6123001-6
63.20 2.488	**69.80** 2.748	**68.20** 2.685	160	8µ" Au	5179031-8	6-5179230-8	3-5177986-8
				30µ" Au	6123002-8	—	6123001-8
71.20 2.803	**77.80** 3.063	**76.20** 3.000	180	8µ" Au	5179031-9	6-5179230-9	3-5177986-9
				30µ" Au	6123002-9	—	6123001-9
79.20 3.118	**85.80** 3.378	**84.20** 3.315	200	8µ" Au	1-5179031-0	7-5179230-0	—
				30µ" Au	1-6123002-0	—	—

Note: Part Numbers are RoHS compliant.

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0.8mm Free Height Vertical Plugs, 0.8 [.031] Pitch (Continued)

5mm Receptacles for 5 [.197], 6 [.236], 7 [.276] and 8 [.315] Stacking Heights

Material and Finish

Housing — High temperature thermoplastic, natural color, 94V-0 rated

Contacts — Beryllium copper; duplex plated 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

Related Product Data

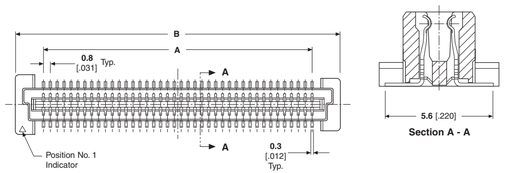
Performance Characteristics — page 71

Stacking Height Combinations — page 72

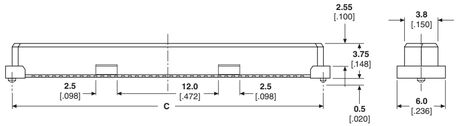
Mating Plugs — pages 74 thru 77, and 81

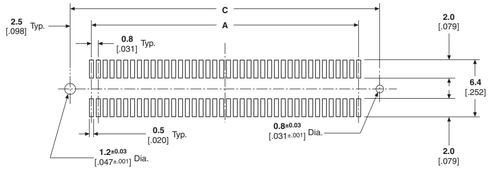
Technical Documents (page 113)

Product Specification
108-5390



Section A - A





Recommended PC Board Layout

Dimensions A	Dimensions B	Dimensions C	No. of Positions	Plating Type	Part Numbers Tube	Part Numbers Tube w/ Pickup Cap	Part Numbers Tape and Reel
15.20 .598	**21.80** .858	**20.20** .795	40	8µ" Au	5177983-1	5179229-1	5177985-1
				30µ" Au	6123000-1	—	5353999-1
23.20 .913	**29.80** 1.173	**28.20** 1.110	60	8µ" Au	5177983-2	5179229-2	5177985-2
				30µ" Au	6123000-2	—	5353999-2
31.20 1.228	**37.80** 1.488	**36.20** 1.425	80	8µ" Au	5177983-3	5179229-3	5177985-3
				30µ" Au	6123000-3	—	5353999-3
39.20 1.543	**45.80** 1.803	**44.20** 1.740	100	8µ" Au	5177983-4	5179229-4	5177985-4
				30µ" Au	6123000-4	—	5353999-4
47.20 1.858	**53.80** 2.118	**52.20** 2.055	120	8µ" Au	5177983-5	5179229-5	5177985-5
				30µ" Au	6123000-5	—	5353999-5
55.20 2.173	**61.80** 2.433	**60.20** 2.370	140	8µ" Au	5177983-6	5179229-6	5177985-6
				30µ" Au	6123000-6	—	5353999-6
63.20 2.488	**69.80** 2.748	**68.20** 2.685	160	8µ" Au	5177983-8	5179229-8	5177985-8
				30µ" Au	6123000-8	—	5353999-8
71.20 2.803	**77.80** 3.063	**76.20** 3.000	180	8µ" Au	5177983-9	5179229-9	—
				30µ" Au	6123000-9	—	—
79.20 3.118	**85.80** 3.378	**84.20** 3.315	200	8µ" Au	1-5177983-0	1-5179229-0	—
				30µ" Au	1-6123000-0	—	—

Note: Part Numbers are RoHS compliant.

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

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

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0.8mm Free Height Vertical Plugs, 0.8 [.031] Pitch (Continued)

9mm Receptacles for 9 [.354], 10 [.394], 11 [.433] and 12 [.472] Stacking Heights

Material and Finish

Housing — High temperature thermoplastic, natural color, 94V-0 rated

Contacts — Beryllium copper; duplex plated 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

Related Product Data

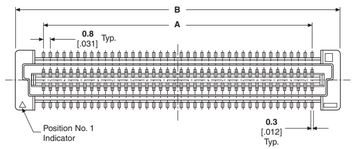
Performance Characteristics — page 71

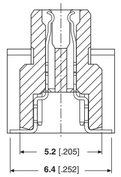
Stacking Height Combinations — page 72

Mating Plugs — pages 74 thru 77, and 81

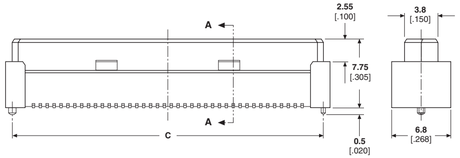
Technical Documents (page 113)

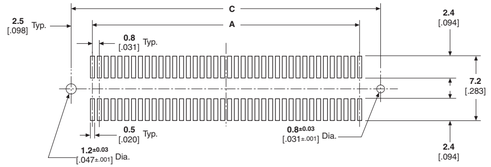
Product Specification
108-5390





Section A - A





Recommended PC Board Layout

Dimensions A	Dimensions B	Dimensions C	No. of Positions	Plating Type	Part Numbers Tube	Part Numbers Tube w/ Pickup Cap	Part Numbers Tape and Reel
15.20 .598	**21.80** .858	**20.20** .795	40	8µ" Au	5-5179009-1	—	5-5179180-1
				30µ" Au	5084613-1	—	7-5179180-1
23.20 .913	**29.80** 1.173	**28.20** 1.110	60	8µ" Au	5-5179009-2	5-5179232-2	5-5179180-2
				30µ" Au	5084613-2	—	7-5179180-2
31.20 1.228	**37.80** 1.488	**36.20** 1.425	80	8µ" Au	5-5179009-3	5-5179232-3	5-5179180-3
				30µ" Au	5084613-3	—	7-5179180-3
39.20 1.543	**45.80** 1.803	**44.20** 1.740	100	8µ" Au	5-5179009-4	5-5179232-4	5-5179180-4
				30µ" Au	5084613-4	—	7-5179180-4
47.20 1.858	**53.80** 2.118	**52.20** 2.055	120	8µ" Au	5-5179009-5	5-5179232-5	5-5179180-5
				30µ" Au	5084613-5	—	7-5179180-5
55.20 2.173	**61.80** 2.433	**60.20** 2.370	140	8µ" Au	5-5179009-6	5-5179232-6	5-5179180-6
				30µ" Au	5084613-6	—	7-5179180-6
63.20 2.488	**69.80** 2.748	**68.20** 2.685	160	8µ" Au	5-5179009-8	5-5179232-8	—
				30µ" Au	5084613-8	—	—
71.20 2.803	**77.80** 3.063	**76.20** 3.000	180	8µ" Au	5-5179009-9	5-5179232-9	—
				30µ" Au	5084613-9	—	—
79.20 3.118	**85.80** 3.378	**84.20** 3.315	200	8µ" Au	6-5179009-0	6-5179232-0	—
				30µ" Au	1-5084613-0	—	—

Note: Part Numbers are RoHS compliant.

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Hong Kong: 852-2735-1628
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UK: 44-141-810-8967

Downloaded from Arrow.com.

0.8mm Free Height Vertical Plugs, 0.8 [.031] Pitch (Continued)

13mm Receptacles for 13 [.512], 14 [.551], 15 [.591] and 16 [.630] Stacking Heights

Material and Finish

Housing — High temperature thermoplastic, natural color, 94V-0 rated

Contacts — Beryllium copper; duplex plated 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

Related Product Data

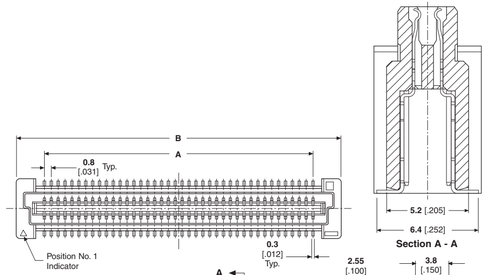
Performance Characteristics — page 71

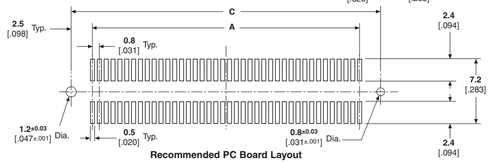
Stacking Height Combinations — page 72

Mating Plugs — pages 74 thru 77, and 81

Technical Documents (page 113)

Product Specification
108-5390





Recommended PC Board Layout

Dimensions A	Dimensions B	Dimensions C	No. of Positions	Plating Type	Part Numbers Tube	Part Numbers Tube w/ Pickup Cap	Part Numbers Tape and Reel
15.20 .598	**21.80** .858	**20.20** .795	40	8µ" Au	5-5179010-1	5-5179233-1	5084616-1
				30µ" Au	5-6123212-1	—	5084618-1
23.20 .913	**29.80** 1.173	**28.20** 1.110	60	8µ" Au	5-5179010-2	5-5179233-2	5084616-2
				30µ" Au	5-6123212-2	—	5084618-2
31.20 1.228	**37.80** 1.488	**36.20** 1.425	80	8µ" Au	5-5179010-3	5-5179233-3	5084616-3
				30µ" Au	5-6123212-3	—	5084618-3
39.20 1.543	**45.80** 1.803	**44.20** 1.740	100	8µ" Au	5-5179010-4	5-5179233-4	5084616-4
				30µ" Au	5-6123212-4	—	5084618-4
47.20 1.858	**53.80** 2.118	**52.20** 2.055	120	8µ" Au	5-5179010-5	5-5179233-5	5084616-5
				30µ" Au	5-6123212-5	—	5084618-5
55.20 2.173	**61.80** 2.433	**60.20** 2.370	140	8µ" Au	5-5179010-6	5-5179233-6	5084616-6
				30µ" Au	5-6123212-6	—	5084618-6
63.20 2.488	**69.80** 2.748	**68.20** 2.685	160	8µ" Au	5-5179010-8	5-5179233-8	5084616-8
				30µ" Au	5-6123212-8	—	5084618-8
71.20 2.803	**77.80** 3.063	**76.20** 3.000	180	8µ" Au	5-5179010-9	5-5179233-9	5084616-9
				30µ" Au	5-6123212-9	—	5084618-9
79.20 3.118	**85.80** 3.378	**84.20** 3.315	200	8µ" Au	6-5179010-0	6-5179233-0	—
				30µ" Au	6-6123212-0	7-6123212-0	—

Note: Part Numbers are RoHS compliant.

Catalog 889092
Revised 9-06
www.tycoelectronics.com

Dimensions are in millimeters and inches unless otherwise specified. Values in brackets are standard 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: 52-55-5-729-0425

South America: 55-11-3611-1514
Hong Kong: 852-2735-1628
Japan: 81-44-844-8013
UK: 44-141-810-8967

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0.8mm Free Height Right Angle Plugs, 0.8 [.031] Pitch

8mm Plugs for 5 [.197], 9 [.354] and 13 [.512] Stacking Heights

Material and Finish

Housing — High temperature thermoplastic, natural color, 94V-0 rated

Contacts — Brass; duplex plated 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

Related Product Data

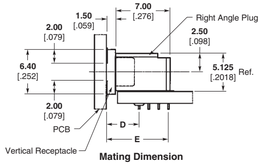
Performance Characteristics — page 71

Stacking Height Combinations — page 72

Mating Receptacles — pages 78 thru 80

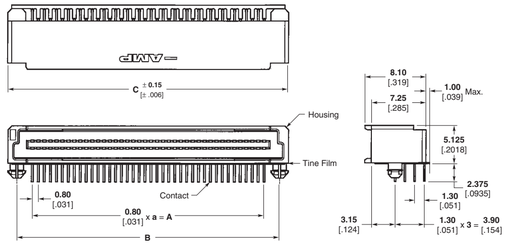
Technical Documents (page 113)

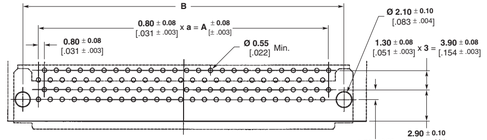
Product Specification
108-5390



Mating Dimension

Receptacle Height	Dimension D	Dimension E
5.00 .197	4.40 .173	8.30 .327
9.00 .354	8.40 .331	12.30 .484
13.00 .512	12.40 .488	16.30 .642





Recommended PC Board Layout
Viewed from Connector Side

Dimension A	Dimension B	Dimension C	a	No. of Positions	Part Number
23.20 .913	27.40 1.079	29.80 1.173	29	60	316229-2
31.20 1.228	35.40 1.394	37.80 1.488	39	80	316229-3

Note: Part Numbers are RoHS compliant.

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Engineering Notes

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