



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



0.8mm Free Height (FH) Connectors



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)

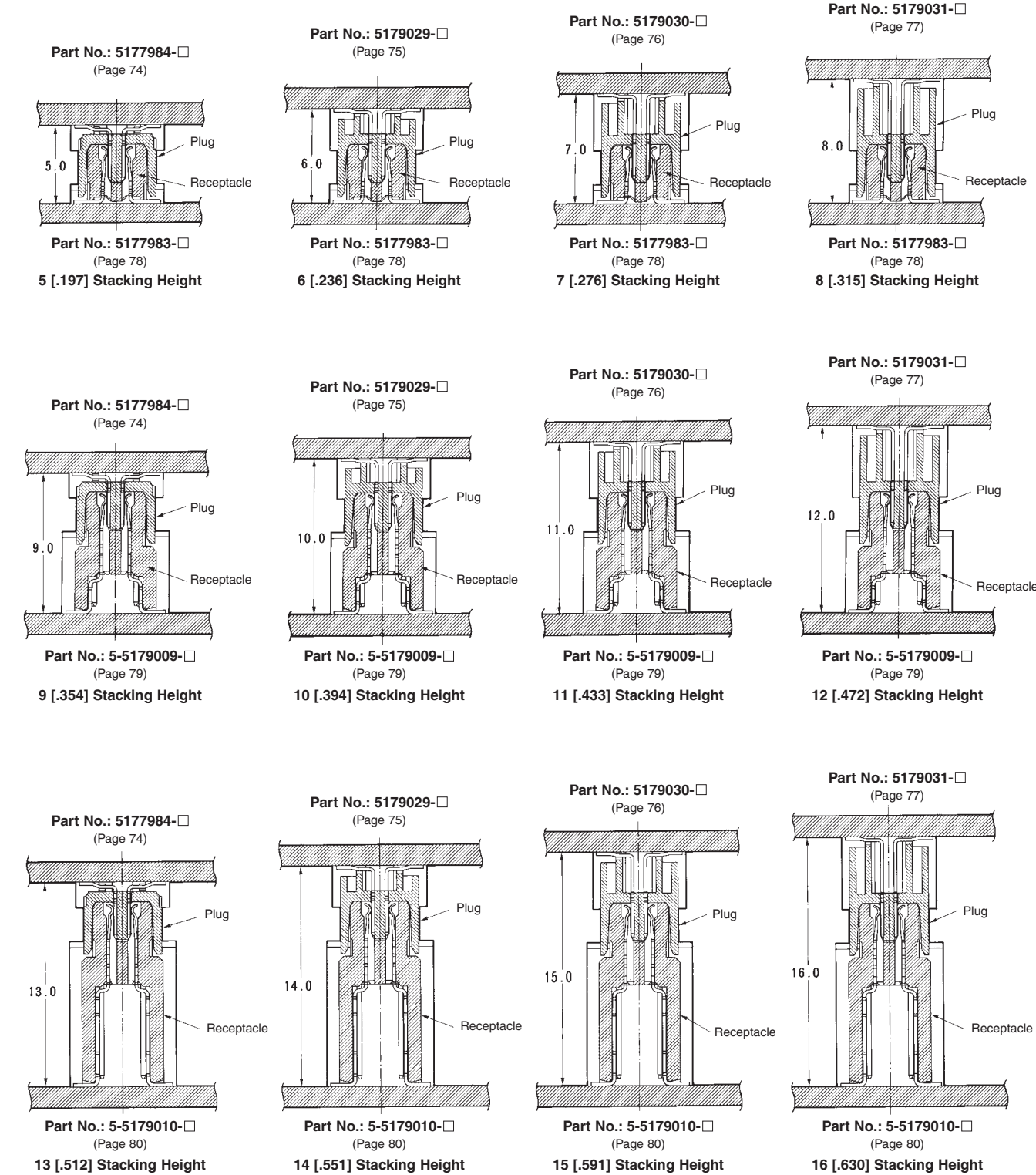
**Dielectric Withstanding Voltage** — 500 VAC (1 minute)

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

0.8mm Free Height (FH) Connectors

0.8mm Free Height (FH) Connectors (Continued)

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



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.



Electronics

Fine Pitch SMT Stacking Connectors  
(Parallel Board-to-Board)



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.    |  |
| 5H                 | 8µ"           | Tube                 | No            | 5177983-1   | 5177983-2   | 5177983-3   | 5177983-4   | 5177983-5   | 5177983-6   | 5177983-8   | 5177983-9   | 1-5177983-0 |             |  |
|                    |               |                      | 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   |             |             |             |  |
|                    |               |                      | No            | 6123000-1   | 6123000-2   | 6123000-3   | 6123000-4   | 6123000-5   | 6123000-6   | 6123000-8   | 6123000-9   | 1-6123000-0 |             |  |
|                    |               | 30µ"                 | 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 |  |
|                    |               |                      | 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 |             |             |             |             |  |
|                    |               |                      | No            | 5084613-1   | 5084613-2   | 5084613-3   | 5084613-4   | 5084613-5   | 5084613-6   | 5084613-8   | 5084613-9   | 1-5084613-0 |             |  |
|                    |               | 30µ"                 | Tube          | No          |             |             |             |             |             |             |             |             |             |  |
|                    |               |                      | 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 |             |  |
|                    |               | 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   |             |             |             |  |
|                    |               | 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 |             |  |
|                    | 30µ"          | Tube                 | Yes           |             |             |             |             |             |             |             |             |             |             |  |
|                    |               | Tape and Reel        | Yes           | 5084618-1   | 5084618-2   | 5084618-3   | 5084618-4   | 5084618-5   | 5084618-6   | 5084618-8   | 5084618-9   |             |             |  |
| 5H                 | 8µ"           | Tube                 | No            | 5177984-1   | 5177984-2   | 5177984-3   | 5177984-4   | 5177984-5   | 5177984-6   | 5177984-8   | 5177984-9   | 1-5177984-0 |             |  |
|                    |               | 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   |             |             |             |             |  |
|                    |               | No                   | 5084614-1     | 5084614-2   | 5084614-3   | 5084614-4   | 5084614-5   | 5084614-6   | 5084614-8   | 5084614-9   | 1-5084614-0 |             |             |  |
|                    | 30µ"          | 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 |             |  |
|                    |               | 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 |             |             |             |             |             |  |
|                    |               | No                   | 5084615-1     | 5084615-2   | 5084615-3   | 5084615-4   | 5084615-5   | 5084615-6   | 5084615-8   | 5084615-9   | 1-5084615-0 |             |             |  |
|                    | 30µ"          | Tube                 | Yes           |             |             |             |             |             |             |             |             |             |             |  |
|                    |               | 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 |             |  |
|                    |               | 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 |             |             |             |             |             |  |
|                    |               | 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 |             |             |  |
|                    | 30µ"          | 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 |             |  |
|                    |               | 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 |             |             |             |  |
|                    |               | No                   | 6123002-1     | 6123002-2   | 6123002-3   | 6123002-4   | 6123002-5   | 6123002-6   | 6123002-8   | 6123002-9   | 1-6123002-0 |             |             |  |
|                    | 30µ"          | 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    |             |             |             |             |             |             |             |  |

0.8mm Free Height (FH)  
Connectors

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

Material and Finish

**Housing** — High temperature thermo-  
plastic, natural color, 94V-0 rated

**Contacts** — Brass; duplex plated  
0.00020 [.000008] min. gold on contact  
area, 0.00100 [.000039] min. tin on sol-  
der area, with entire contact underplated  
0.00130 [.000051] min. nickel

Related Product Data

**Performance Characteristics** —  
page 71

**Stacking Height Combinations** —  
page 72

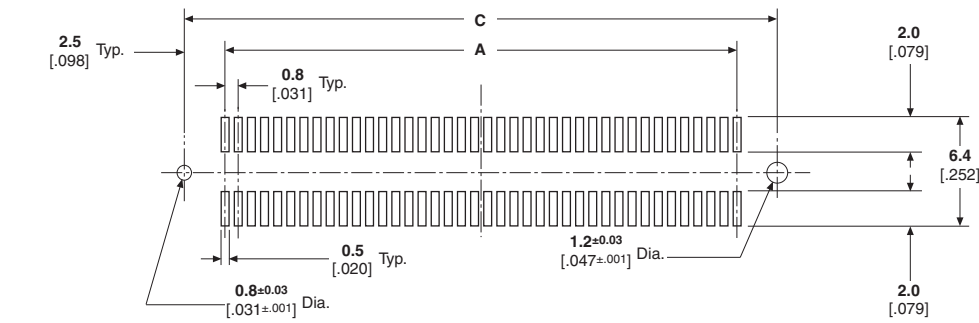
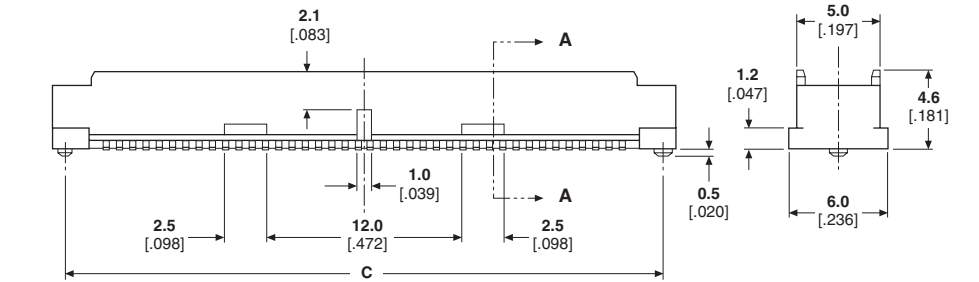
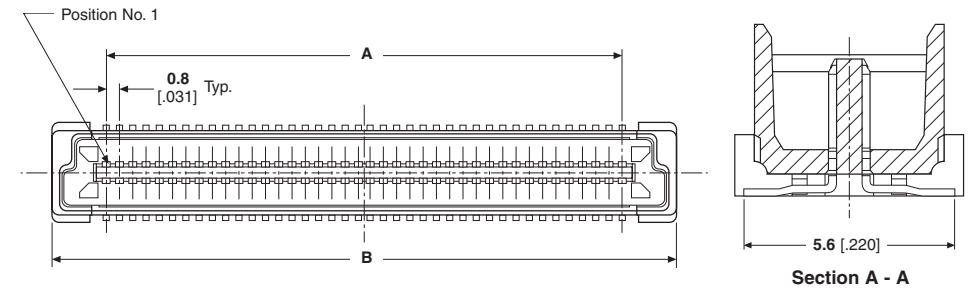
**Mating Receptacles** — pages 78  
thru 80

Technical Documents (page 113)

**Product Specification**  
108-5390

Fine Pitch SMT Stacking Connectors  
(Parallel Board-to-Board)

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



Recommended PC Board Layout

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

Note: Part Numbers are RoHS compliant.







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

Material and Finish

**Housing** — High temperature thermo-plastic, 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

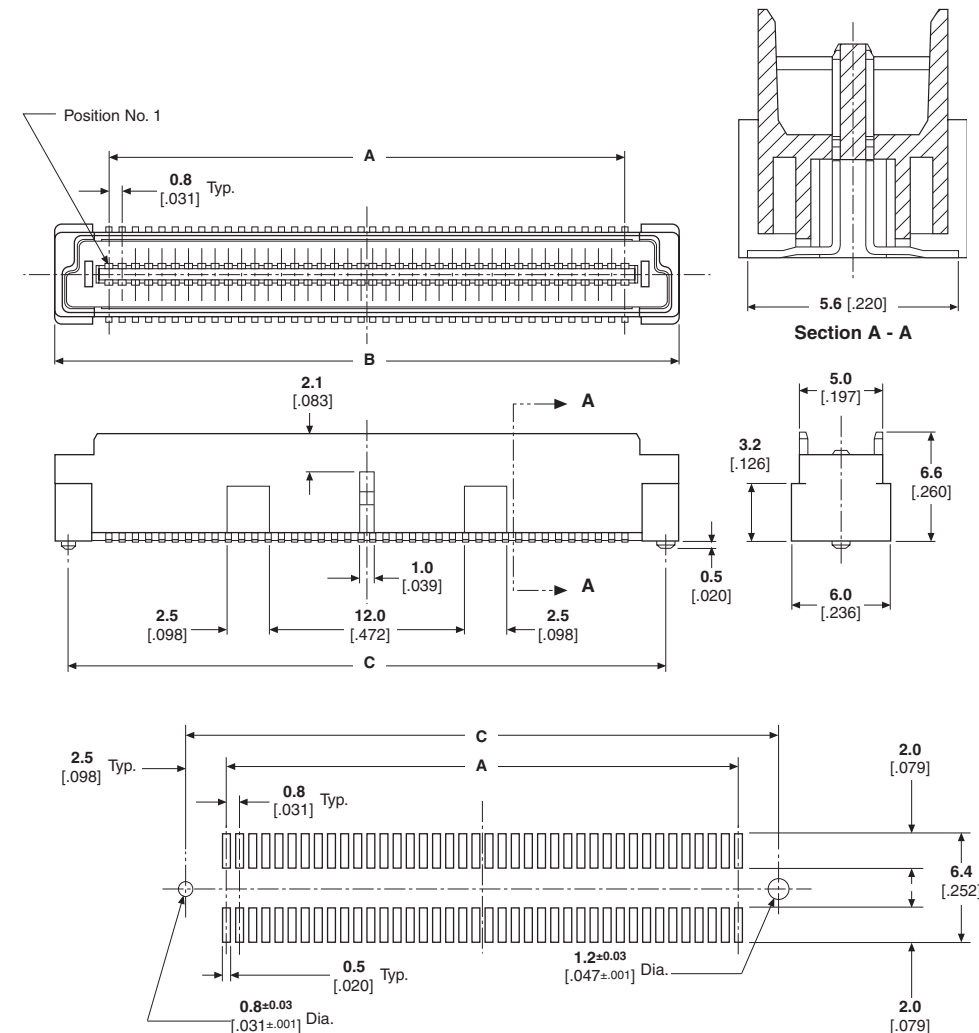
Technical Documents (page 113)

Product Specification

108-5390

Fine Pitch SMT Stacking Connectors  
(Parallel Board-to-Board)

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



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<br>.598  | 21.80<br>.858  | 20.20<br>.795  | 40               | 8µ" Au<br>30µ" Au | 5179030-1<br>1-5179030-1   | 4-5179230-1<br>2-5179030-1 | 2-5177986-1<br>— |
| 23.20<br>.913  | 29.80<br>1.173 | 28.20<br>1.110 | 60               | 8µ" Au<br>30µ" Au | 5179030-2<br>1-5179030-2   | 4-5179230-2<br>2-5179030-2 | 2-5177986-2<br>— |
| 31.20<br>1.228 | 37.80<br>1.488 | 36.20<br>1.425 | 80               | 8µ" Au<br>30µ" Au | 5179030-3<br>1-5179030-3   | 4-5179230-3<br>2-5179030-3 | 2-5177986-3<br>— |
| 39.20<br>1.543 | 45.80<br>1.803 | 44.20<br>1.740 | 100              | 8µ" Au<br>30µ" Au | 5179030-4<br>1-5179030-4   | 4-5179230-4<br>2-5179030-4 | 2-5177986-4<br>— |
| 47.20<br>1.858 | 53.80<br>2.118 | 52.20<br>2.055 | 120              | 8µ" Au<br>30µ" Au | 5179030-5<br>1-5179030-5   | 4-5179230-5<br>2-5179030-5 | 2-5177986-5<br>— |
| 55.20<br>2.173 | 61.80<br>2.433 | 60.20<br>2.370 | 140              | 8µ" Au<br>30µ" Au | 5179030-6<br>1-5179030-6   | 4-5179230-6<br>2-5179030-6 | 2-5177986-6<br>— |
| 63.20<br>2.488 | 69.80<br>2.748 | 68.20<br>2.685 | 160              | 8µ" Au<br>30µ" Au | 5179030-8<br>1-5179030-8   | 4-5179230-8<br>2-5179030-8 | 2-5177986-8<br>— |
| 71.20<br>2.803 | 77.80<br>3.063 | 76.20<br>3.000 | 180              | 8µ" Au<br>30µ" Au | 5179030-9<br>1-5179030-9   | 4-5179230-9<br>2-5179030-9 | 2-5177986-9<br>— |
| 79.20<br>3.118 | 85.80<br>3.378 | 84.20<br>3.315 | 200              | 8µ" Au<br>30µ" Au | 1-5179030-0<br>2-5179030-0 | 5-5179230-0<br>3-5179030-0 | 3-5177986-0<br>— |

Note: Part Numbers are RoHS compliant.



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

Material and Finish

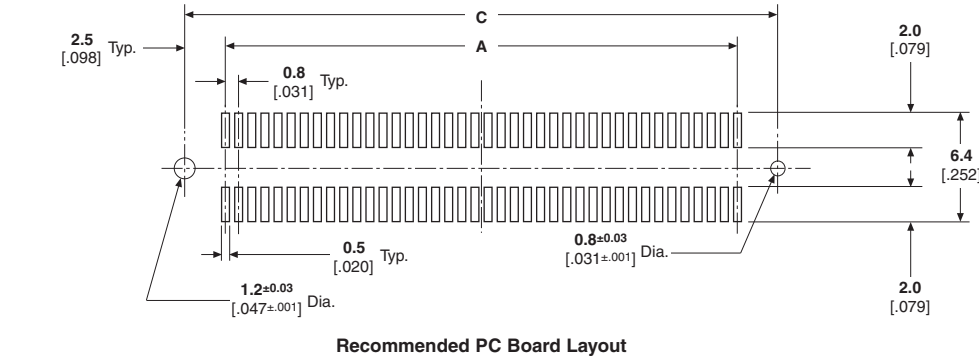
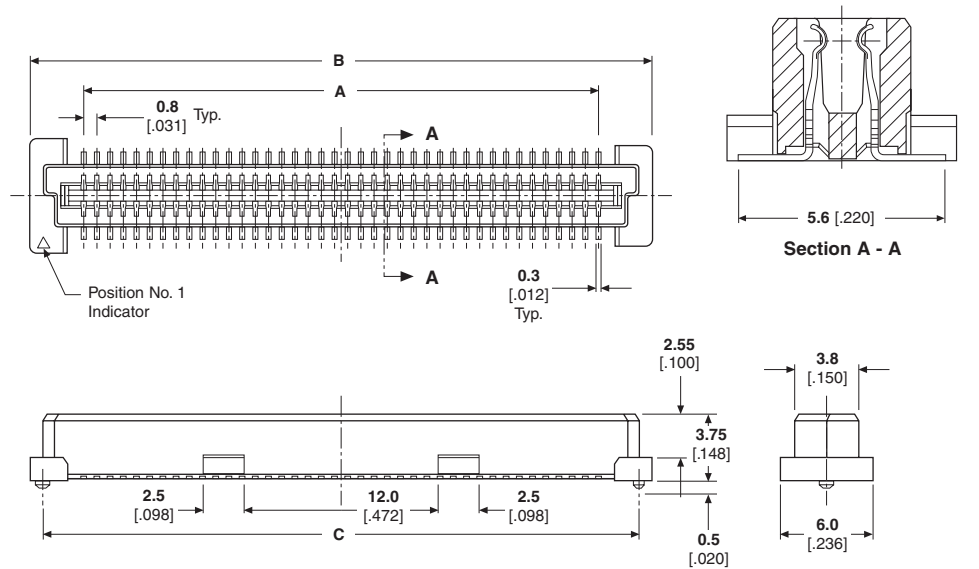
**Housing** — High temperature thermo-  
plastic, natural color, 94V-0 rated  
**Contacts** — Beryllium copper; duplex  
plated 0.00020 [.000008] min. gold on  
contact area, 0.00100 [.000039] min. tin  
on solder area, with entire contact  
underplated 0.00130 [.000051] min.  
nickel

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

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



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

Note: Part Numbers are RoHS compliant.





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

Material and Finish

**Housing** — High temperature thermo-  
plastic, 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

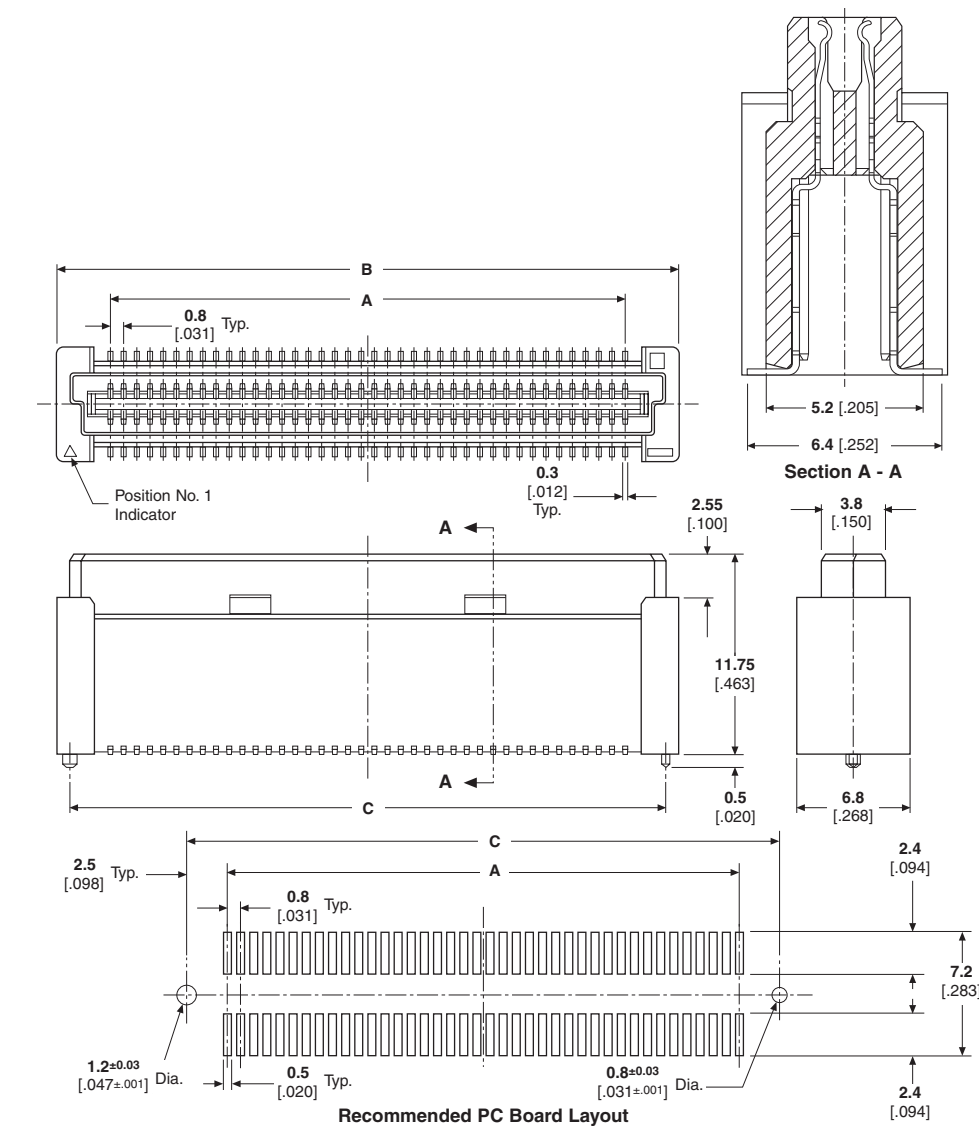
**Performance Characteristics** —  
page 71  
**Stacking Height Combinations** —  
page 72  
**Mating Plugs** — pages 74 thru 77,  
and 81

Technical Documents (page 113)

**Product Specification**  
108-5390

Fine Pitch SMT Stacking Connectors  
(Parallel Board-to-Board)

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



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

Note: Part Numbers are RoHS compliant.

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

Material and Finish

**Housing** — High temperature thermo-plastic, 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

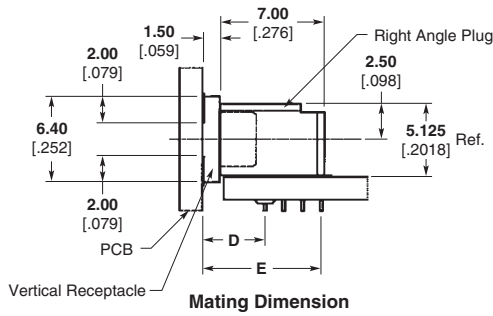
Technical Documents (page 113)

**Product Specification**  
108-5390

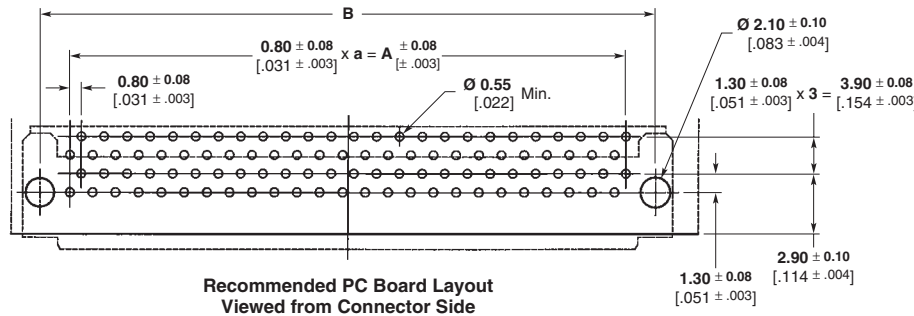
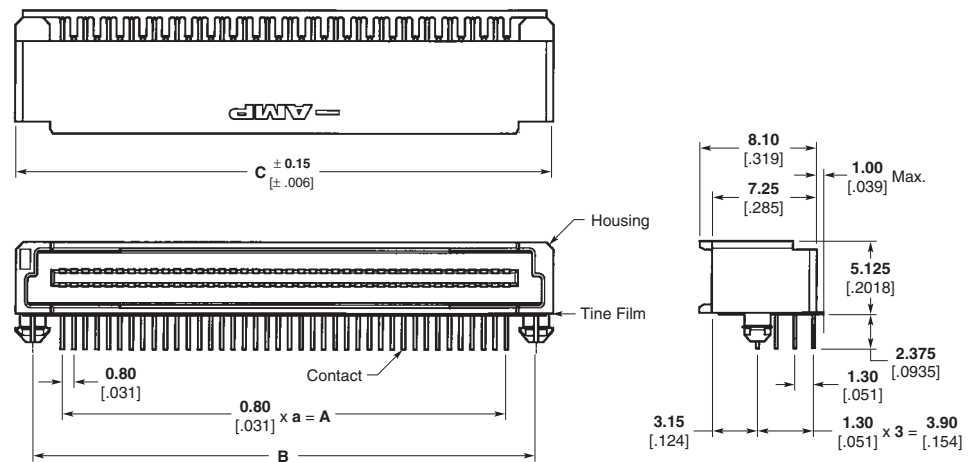
Fine Pitch SMT Stacking Connectors  
(Parallel Board-to-Board)

AMP

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



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



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

**Note:** Part Numbers are RoHS compliant.

0.8mm Free Height (FH)  
Connectors

