



*Electronics*

# .8mm Free Height (FH) Connector System

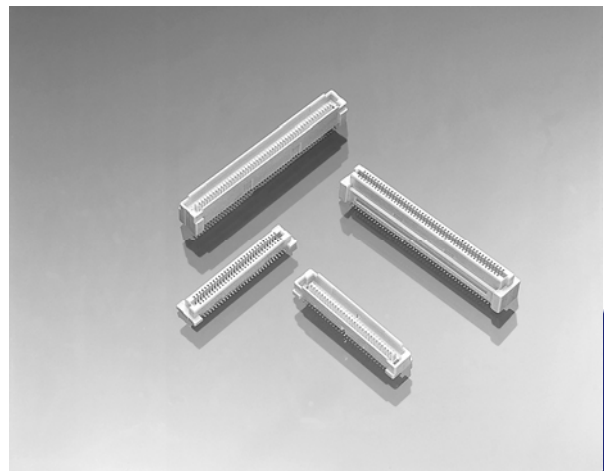
*Now offering 30u" Gold Plating Options  
and Right Angle Plugs*

## DESCRIPTION

The popular .8mm FH connector system is now available with 30u" Gold Plating. In addition, a right angle plug in 60 and 80 positions is also available. The right angle plug product is a thru-hole, while the balance of the product line remains surface mount.

## APPLICATION

The 30u" Gold product is intended for stacking applications in high end Computer, Telecommunications, Industrial, and Mil/Aero applications. The right angle plug is ideal for test cards and card extenders, and mates to standard vertical receptacles.



## KEY FEATURES

- Available Position Sizes: 40 thru 200 positions in increments of 20 positions
- Stack Height Options: 5mm thru 16mm in increments of 1mm
- Tube, Tube with Pickup Cap, and Tape and Reel Packaging Options
- Polarized locating posts
- 8u" Gold, and 30u" Gold plating options
- RoHS Compliant numbers available now
- Optional Solder Peg (holddown)
- Right Angle Plugs in 60 and 80 positions

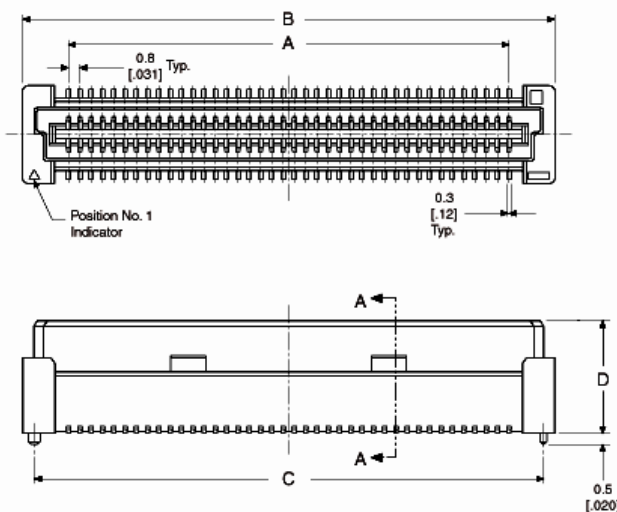
# .8mm Free Height (FH) Connector System

## RECEPTACLE PART NUMBERS

| Height | Plating Au Thickness | Package Type  | Pickup Cap | 40pos       | 60pos       | 80pos       | 100pos      | 120pos      | 140pos      | 160pos      | 180pos      | 200pos      |
|--------|----------------------|---------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 5H     | 8u"                  | Tube          | no         | 177983-1    | 177983-2    | 177983-3    | 177983-4    | 177983-5    | 177983-6    | 177983-8    | 177983-9    | 1-177983-0  |
|        |                      | Tube          | yes        | 179229-1    | 179229-2    | 179229-3    | 179229-4    | 179229-5    | 179229-6    | 179229-8    | 179229-9    | 1-179229-0  |
|        |                      | Tape and Reel | yes        | 177985-1    | 177985-2    | 177985-3    | 177985-4    | 177985-5    | 177985-6    | 177985-8    |             |             |
|        | 30u"                 | Tube          | no         | 1123000-1   | 1123000-2   | 1123000-3   | 1123000-4   | 1123000-5   | 1123000-6   | 1123000-8   | 1123000-9   | 1-1123000-0 |
|        |                      | Tube          | yes        |             |             |             |             |             |             |             |             |             |
|        |                      | Tape and Reel | yes        | 353999-1    | 353999-2    | 353999-3    | 353999-4    | 353999-5    | 353999-6    | 353999-8    |             |             |
| 9H     | 8u"                  | Tube          | no         | 5-179009-1  | 5-179009-2  | 5-179009-3  | 5-179009-4  | 5-179009-5  | 5-179009-6  | 5-179009-8  | 5-179009-9  | 6-179009-0  |
|        |                      | Tube          | yes        |             | 5-179232-2  | 5-179232-3  | 5-179232-4  | 5-179232-5  | 5-179232-6  | 5-179232-8  | 5-179232-9  | 6-179232-0  |
|        |                      | Tape and Reel | yes        | 5-179180-1  | 5-179180-2  | 5-179180-3  | 5-179180-4  | 5-179180-5  | 5-179180-6  |             |             |             |
|        | 30u"                 | Tube          | no         | 84613-1     | 84613-2     | 84613-3     | 84613-4     | 84613-5     | 84613-6     | 84613-8     | 84613-9     | 1-84613-0   |
|        |                      | Tube          | yes        |             |             |             |             |             |             |             |             |             |
|        |                      | Tape and Reel | yes        | 7-179180-1  | 7-179180-2  | 7-179180-3  | 7-179180-4  | 7-179180-5  | 7-179180-6  |             |             |             |
| 13H    | 8u"                  | Tube          | no         | 5-179010-1  | 5-179010-2  | 5-179010-3  | 5-179010-4  | 5-179010-5  | 5-179010-6  | 5-179010-8  | 5-179010-9  | 6-179010-0  |
|        |                      | Tube          | yes        | 5-179233-1  | 5-179233-2  | 5-179233-3  | 5-179233-4  | 5-179233-5  | 5-179233-6  | 5-179233-8  | 5-179233-9  | 6-179233-0  |
|        |                      | Tape and Reel | yes        | 84616-1     | 84616-2     | 84616-3     | 84616-4     | 84616-5     | 84616-6     | 84616-8     | 84616-9     |             |
|        | 30u"                 | Tube          | no         | 5-1123212-1 | 5-1123212-2 | 5-1123212-3 | 5-1123212-4 | 5-1123212-5 | 5-1123212-6 | 5-1123212-8 | 5-1123212-9 | 6-1123212-0 |
|        |                      | Tube          | yes        |             |             |             |             |             |             |             |             | 7-1123212-0 |
|        |                      | Tape and Reel | yes        | 84618-1     | 84618-2     | 84618-3     | 84618-4     | 84618-5     | 84618-6     | 84618-8     | 84618-9     |             |

Stack Height = ((Rept Height + Plug Height) - 5)

example: ((13H Rept + 6H Plug) - 5) = ((13 + 6) - 5) = 14mm stack height



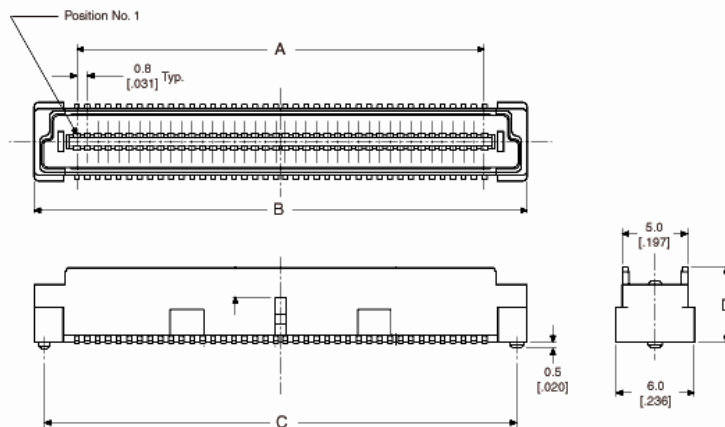
| No. of Positions | Dimensions |       |       | Height | 5H   | 9H   | 13H   |
|------------------|------------|-------|-------|--------|------|------|-------|
|                  | A          | B     | C     |        |      |      |       |
| 40               | 15.20      | 21.80 | 20.20 | Dim D  | 3.75 | 7.75 | 11.75 |
|                  | .598       | .858  | .795  |        | .148 | .305 | .483  |
| 60               | 23.20      | 29.80 | 28.20 | Dim E  | 6.00 | 6.80 | 6.80  |
|                  | .913       | 1.173 | 1.110 |        | .236 | .268 | .268  |
| 80               | 31.20      | 37.80 | 36.20 |        |      |      |       |
|                  | 1.228      | 1.488 | 1.425 |        |      |      |       |
| 100              | 39.20      | 45.80 | 44.20 |        |      |      |       |
|                  | 1.543      | 1.803 | 1.740 |        |      |      |       |
| 120              | 47.20      | 53.80 | 52.20 |        |      |      |       |
|                  | 1.858      | 2.118 | 2.055 |        |      |      |       |
| 140              | 55.20      | 61.80 | 60.20 |        |      |      |       |
|                  | 2.173      | 2.433 | 2.370 |        |      |      |       |
| 160              | 63.20      | 69.80 | 68.20 |        |      |      |       |
|                  | 2.488      | 2.748 | 2.685 |        |      |      |       |
| 180              | 71.20      | 77.80 | 76.20 |        |      |      |       |
|                  | 2.803      | 3.063 | 3.000 |        |      |      |       |
| 200              | 79.20      | 85.80 | 84.20 |        |      |      |       |
|                  | 3.118      | 3.378 | 3.315 |        |      |      |       |

# .8mm Free Height (FH) Connector System

## PLUG PART NUMBERS

| Height | Plating Au Thickness | Package Type  | Pickup Cap | 40pos      | 60pos      | 80pos      | 100pos     | 120pos     | 140pos     | 160pos     | 180pos     | 200pos      |
|--------|----------------------|---------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| 5H     | 8u"                  | Tube          | no         | 177984-1   | 177984-2   | 177984-3   | 177984-4   | 177984-5   | 177984-6   | 177984-8   | 177984-9   | 1-177984-0  |
|        |                      | Tube          | yes        | 179230-1   | 179230-2   | 179230-3   | 179230-4   | 179230-5   | 179230-6   | 179230-8   | 179230-9   | 1-179230-0  |
|        |                      | Tape and Reel | yes        | 177986-1   | 177986-2   | 177986-3   | 177986-4   | 177986-5   | 177986-6   | 177986-8   |            |             |
|        | 30u"                 | Tube          | no         | 84614-1    | 84614-2    | 84614-3    | 84614-4    | 84614-5    | 84614-6    | 84614-8    | 84614-9    | 1-84614-0   |
|        |                      | Tube          | yes        |            |            |            |            |            |            |            |            |             |
|        |                      | Tape and Reel | yes        | 5-177986-1 | 5-177986-2 | 5-177986-3 | 5-177986-4 | 5-177986-5 | 5-177986-6 | 5-177986-8 |            |             |
| 6H     | 8u"                  | Tube          | no         | 179029-1   | 179029-2   | 179029-3   | 179029-4   | 179029-5   | 179029-6   | 179029-8   | 179029-9   | 1-179029-0  |
|        |                      | Tube          | yes        | 2-179230-1 | 2-179230-2 | 2-179230-3 | 2-179230-4 | 2-179230-5 | 2-179230-6 | 2-179230-8 | 2-179230-9 | 3-179230-0  |
|        |                      | Tape and Reel | yes        | 1-177986-1 | 1-177986-2 | 1-177986-3 | 1-177986-4 | 1-177986-5 | 1-177986-6 |            |            |             |
|        | 30u"                 | Tube          | no         | 84615-1    | 84615-2    | 84615-3    | 84615-4    | 84615-5    | 84615-6    | 84615-8    | 84615-9    | 1-84615-0   |
|        |                      | Tube          | yes        |            |            |            |            |            |            | 1-84615-8  | 1-84615-9  | 2-84615-0   |
|        |                      | Tape and Reel | yes        | 6-177986-1 | 6-177986-2 | 6-177986-3 | 6-177986-4 | 6-177986-5 | 6-177986-6 |            |            |             |
| 7H     | 8u"                  | Tube          | no         | 179030-1   | 179030-2   | 179030-3   | 179030-4   | 179030-5   | 179030-6   | 179030-8   | 179030-9   | 1-179030-0  |
|        |                      | Tube          | yes        | 4-179230-1 | 4-179230-2 | 4-179230-3 | 4-179230-4 | 4-179230-5 | 4-179230-6 | 4-179230-8 | 4-179230-9 | 5-179230-0  |
|        |                      | Tape and Reel | yes        | 2-177986-1 | 2-177986-2 | 2-177986-3 | 2-177986-4 | 2-177986-5 | 2-177986-6 |            |            |             |
|        | 30u"                 | Tube          | no         | 1-179030-1 | 1-179030-2 | 1-179030-3 | 1-179030-4 | 1-179030-5 | 1-179030-6 | 1-179030-8 | 1-179030-9 | 2-179030-0  |
|        |                      | Tube          | yes        | 2-179030-1 | 2-179030-2 | 2-179030-3 | 2-179030-4 | 2-179030-5 | 2-179030-6 | 2-179030-8 | 2-179030-9 | 3-179030-0  |
|        |                      | Tape and Reel | yes        |            |            |            |            |            |            |            |            |             |
| 8H     | 8u"                  | Tube          | no         | 179031-1   | 179031-2   | 179031-3   | 179031-4   | 179031-5   | 179031-6   | 179031-8   | 179031-9   | 1-179031-0  |
|        |                      | Tube          | yes        | 6-179230-1 | 6-179230-2 | 6-179230-3 | 6-179230-4 | 6-179230-5 | 6-179230-6 | 6-179230-8 | 6-179230-9 | 7-179230-0  |
|        |                      | Tape and Reel | yes        | 3-177986-1 | 3-177986-2 | 3-177986-3 | 3-177986-4 | 3-177986-5 | 3-177986-6 | 3-177986-8 | 3-177986-9 |             |
|        | 30u"                 | Tube          | no         | 1123002-1  | 1123002-2  | 1123002-3  | 1123002-4  | 1123002-5  | 1123002-6  | 1123002-8  | 1123002-9  | 1-1123002-0 |
|        |                      | Tube          | yes        |            |            |            |            |            |            |            |            |             |
|        |                      | Tape and Reel | yes        | 1123001-1  | 1123001-2  | 1123001-3  | 1123001-4  | 1123001-5  | 1123001-6  | 1123001-8  | 1123001-9  |             |
| R/A    | 8u"                  | Tube          | no         |            | 316229-3   | 316229-2   |            |            |            |            |            |             |

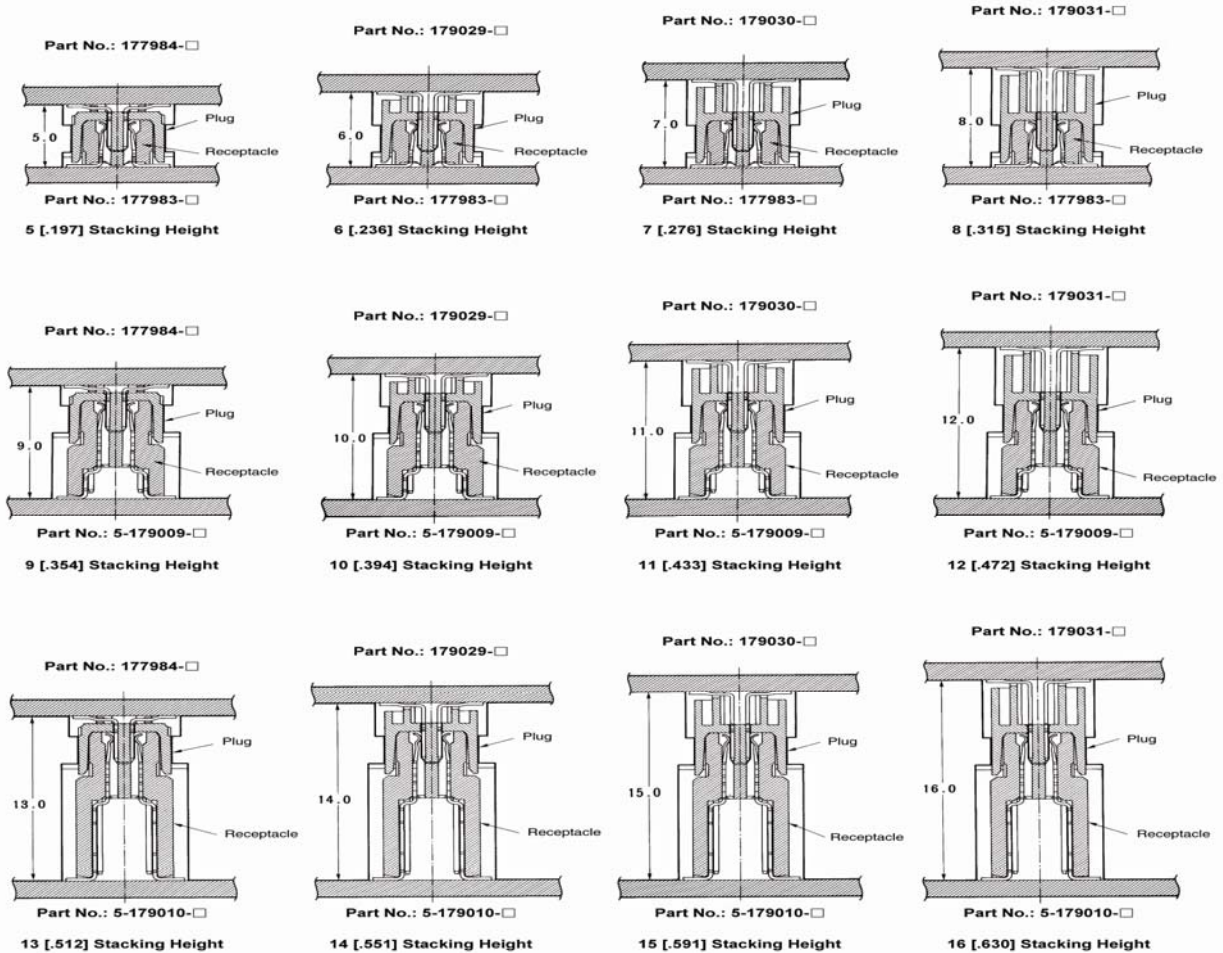
Stack Height = ((Rept Height + Plug Height) - 5)  
 example: ((13H Rept + 6H Plug) - 5) = ((13 + 6) - 5) = 14mm stack height



| No. of Positions | Dimensions |       |       | Height Dim D | 5H    | 6H    | 7H   | 8H   |
|------------------|------------|-------|-------|--------------|-------|-------|------|------|
|                  | A          | B     | C     |              |       |       |      |      |
| 40               | 15.20      | 21.80 | 20.20 | 4.60         | 5.60  | 6.60  | 7.60 | .300 |
|                  | .598       | .858  | .795  |              |       |       |      |      |
| 60               | 23.20      | 29.80 | 28.20 | .913         | 1.173 | 1.110 |      |      |
|                  | 1.228      | 1.488 | 1.425 |              |       |       |      |      |
| 80               | 31.20      | 37.80 | 36.20 | 1.543        | 1.803 | 1.740 |      |      |
|                  | 1.858      | 2.118 | 2.055 |              |       |       |      |      |
| 100              | 39.20      | 45.80 | 44.20 | 2.173        | 2.433 | 2.370 |      |      |
|                  | 2.488      | 2.748 | 2.685 |              |       |       |      |      |
| 120              | 47.20      | 53.80 | 52.20 | 2.803        | 3.063 | 3.000 |      |      |
|                  | 3.118      | 3.378 | 3.315 |              |       |       |      |      |
| 140              | 55.20      | 61.80 | 60.20 |              |       |       |      |      |
|                  | 2.488      | 2.748 | 2.685 |              |       |       |      |      |
| 160              | 63.20      | 69.80 | 68.20 |              |       |       |      |      |
|                  | 2.488      | 2.748 | 2.685 |              |       |       |      |      |
| 180              | 71.20      | 77.80 | 76.20 |              |       |       |      |      |
|                  | 2.803      | 3.063 | 3.000 |              |       |       |      |      |
| 200              | 79.20      | 85.80 | 84.20 |              |       |       |      |      |
|                  | 3.118      | 3.378 | 3.315 |              |       |       |      |      |

# .8mm Free Height (FH) Connector System

## BOARD-TO-BOARD STACKING HEIGHTS (By Plug/Receptacle Combinations)



Note: See charts for specific dash nos. of sizes 40 to 200 positions (in 20-position increments).

## FOR MORE INFORMATION

Product Specification: 108-5390

Technical Support

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USA: 1-800-522-6752

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- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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