

# Fine Pitch SMT Board to Board Connectors Series 5046



Series 5046 is the board to board, fine pitch connector which meets the requirement for high density circuitry in the market and designed especially for portable equipment. Mated height between boards can be from 3.0mm to 4.5mm.

## FEATURES

Series 5046 is offered with or without strain relief.

Designed to have the strong resistance against torque forces on mating area to achieve the high reliability in the natural fall shock environment.

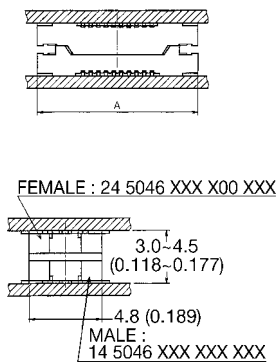
Adoption of bellows type contact with excellent contact reliability.

High durability to achieve 50 mating cycles.

Parts are supplied in tape and reel with 1000 pieces per reel.

## SPECIFICATIONS

|               |                      |
|---------------|----------------------|
| Series        | 5046                 |
| Mated Height  | 3.0, 3.5, 4.0, 4.5mm |
| Pitch         | 0.5mm                |
| Current       | 0.4A Max             |
| Voltage       | 50V Max              |
| D.W. Voltage  | 500V rms/min.        |
| Mating Cycles | 50                   |



| No. of Pos. | Dimension A  |
|-------------|--------------|
| 020         | 10.5 (0.413) |
| 030         | 13.0 (0.512) |
| 040         | 15.5 (0.610) |
| 050         | 18.0 (0.709) |
| 060         | 20.5 (0.807) |
| 070         | 23.0 (0.906) |
| 080         | 25.5 (1.004) |
| 090         | 28.0 (1.102) |
| 100         | 30.5 (1.201) |
| 110         | 33.0 (1.299) |
| 120         | 35.5 (1.398) |

| Series | Variation  | Mated Height | Gold Plating | Strain Relief | Vacuum Cover | Part Number |     |   |    |     | Number of Positions |     |     |     |     |     |     |     |     |     |     |   |   |
|--------|------------|--------------|--------------|---------------|--------------|-------------|-----|---|----|-----|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|---|
|        |            |              |              |               |              |             |     |   |    |     | 020                 | 030 | 040 | 050 | 060 | 070 | 080 | 090 | 100 | 110 | 120 |   |   |
| 5046   | Plug       | 3.0mm        | 0.1µm        | O             | O            | 14 5046     | XXX | 6 | 30 | 829 | O                   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O |   |
|        |            |              |              |               | 1            | 14 5046     | XXX | 1 | 30 | 829 | O                   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O |   |
|        |            |              |              | 1             | O            | 14 5046     | XXX | 5 | 30 | 829 | O                   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O | O |
|        |            |              |              |               | 1            | 14 5046     | XXX | 0 | 30 | 829 | O                   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O | O |
|        |            | 3.5mm        | 0.1µm        | O             | O            | 14 5046     | XXX | 6 | 35 | 829 | O                   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O |   |
|        |            |              |              |               | 1            | 14 5046     | XXX | 1 | 35 | 829 | O                   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   |   |   |
|        |            |              |              | 1             | O            | 14 5046     | XXX | 5 | 35 | 829 | O                   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O |   |
|        |            |              |              |               | 1            | 14 5046     | XXX | 0 | 35 | 829 | O                   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O |   |
|        |            | 4.0mm        | 0.1µm        | O             | O            | 14 5046     | XXX | 6 | 40 | 829 | O                   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O |   |
|        |            |              |              |               | 1            | 14 5046     | XXX | 1 | 40 | 829 | O                   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   |   |   |
|        |            |              |              | 1             | O            | 14 5046     | XXX | 5 | 40 | 829 | O                   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O |   |
|        |            |              |              |               | 1            | 14 5046     | XXX | 0 | 40 | 829 | O                   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O |   |
|        |            | 4.5mm        | 0.1µm        | O             | O            | 14 5046     | XXX | 6 | 45 | 829 | O                   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O |   |
|        |            |              |              |               | 1            | 14 5046     | XXX | 1 | 45 | 829 | O                   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   |   |   |
|        |            |              |              | 1             | O            | 14 5046     | XXX | 5 | 45 | 829 | O                   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O |   |
|        |            |              |              |               | 1            | 14 5046     | XXX | 0 | 45 | 829 | O                   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O |   |
|        | Receptacle |              | 0.1µm        | O             | O            | 24 5046     | XXX | 6 | 00 | 829 | O                   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O |   |
|        |            |              |              |               | 1            | 24 5046     | XXX | 1 | 00 | 829 | O                   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O |   |
|        |            |              |              | 1             | O            | 24 5046     | XXX | 5 | 00 | 829 | O                   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O | O |
|        |            |              |              |               | 1            | 24 5046     | XXX | 2 | 00 | 829 | O                   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O   | O | O |

Types without strain relief offer greater space saving on the pcb

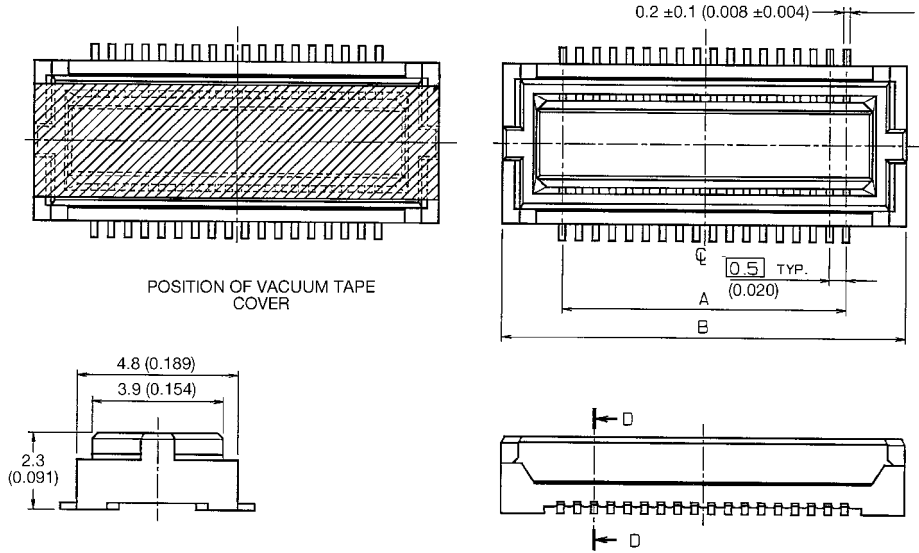
O = Available  
1 = Not available

# Fine Pitch SMT Board to Board Connectors

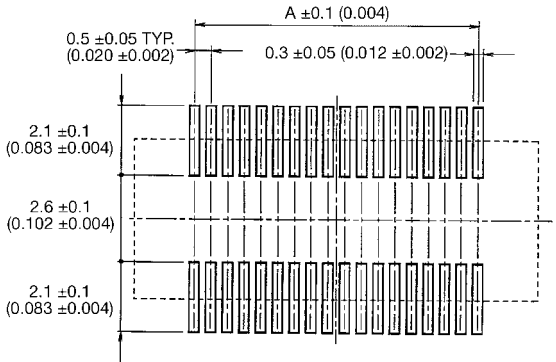
## Series 5046

### Plug for Mated Height with Receptacle of 3.0mm

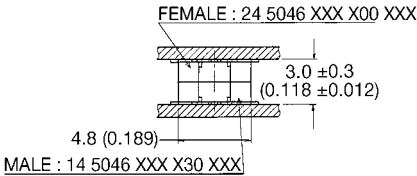
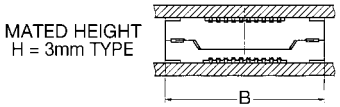
Without Strain Relief



| No. of<br>Pos. | Dimension       |                 |
|----------------|-----------------|-----------------|
|                | A               | B               |
| 020            | 4.5<br>(0.177)  | 8.1<br>(0.319)  |
| 030            | 7.0<br>(0.276)  | 10.6<br>(0.417) |
| 040            | 9.5<br>(0.374)  | 13.1<br>(0.516) |
| 050            | 12.0<br>(0.472) | 15.6<br>(0.614) |
| 060            | 14.5<br>(0.571) | 18.1<br>(0.713) |
| 070            | 17.0<br>(0.669) | 20.6<br>(0.811) |
| 080            | 19.5<br>(0.768) | 23.1<br>(0.909) |
| 090            | 22.0<br>(0.866) | 25.6<br>(1.008) |
| 100            | 24.0<br>(0.945) | 28.1<br>(1.106) |
| 110            | 27.0<br>(1.063) | 30.5<br>(1.201) |
| 120            | 29.5<br>(1.161) | 33.1<br>(1.303) |



RECOMMENDED P.C. BOARD LAYOUT



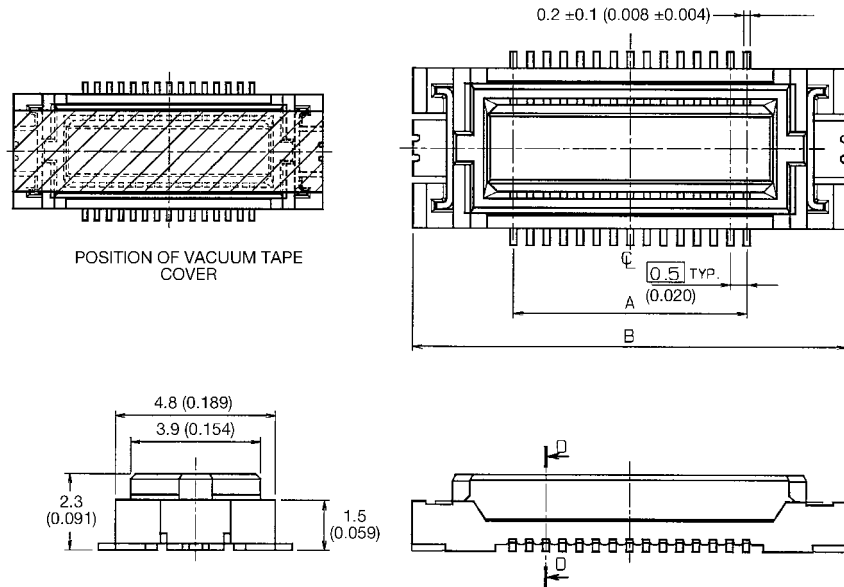
# Fine Pitch SMT Board to Board Connectors

## Series 5046

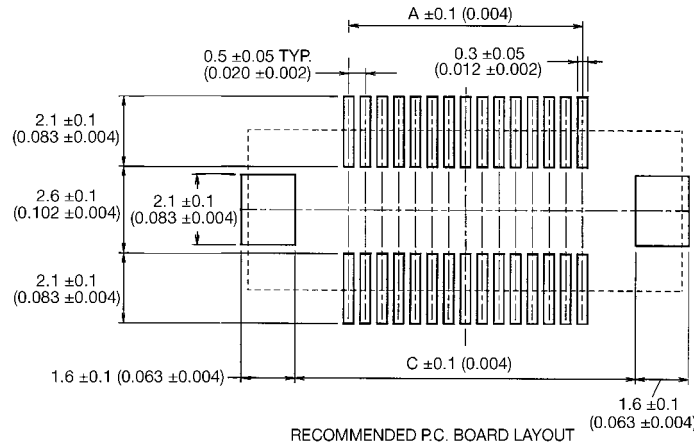
### Plug for Mated Height with Receptacle of 3.0mm



With Strain Relief



| No. of<br>Pos. | Dimension       |                 |                 |
|----------------|-----------------|-----------------|-----------------|
|                | A               | B               | C               |
| 020            | 4.5<br>(0.177)  | 10.5<br>(0.413) | 7.7<br>(0.303)  |
| 030            | 7.0<br>(0.276)  | 13.0<br>(0.512) | 10.2<br>(0.402) |
| 040            | 9.5<br>(0.374)  | 15.5<br>(0.610) | 12.7<br>(0.500) |
| 050            | 12.0<br>(0.472) | 18.0<br>(0.709) | 15.2<br>(0.598) |
| 060            | 14.5<br>(0.571) | 20.5<br>(0.807) | 17.7<br>(0.697) |
| 070            | 17.0<br>(0.669) | 23.0<br>(0.906) | 20.2<br>(0.795) |
| 080            | 19.5<br>(0.768) | 25.5<br>(1.004) | 22.7<br>(0.894) |
| 090            | 22.0<br>(0.866) | 28.0<br>(1.102) | 25.2<br>(0.992) |
| 100            | 24.5<br>(0.965) | 30.5<br>(1.201) | 27.7<br>(1.091) |
| 110            | 27.0<br>(1.063) | 33.0<br>(1.299) | 30.2<br>(1.189) |
| 120            | 29.5<br>(1.161) | 35.5<br>(1.398) | 32.7<br>(1.287) |



## HOW TO ORDER

|                            |                      |                                                                           |                                                                                                                                                                           |                    |
|----------------------------|----------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| <b>14</b>                  | <b>5046</b>          | <b>XXX</b>                                                                | <b>X30</b>                                                                                                                                                                | <b>829</b>         |
| <b>Prefix</b><br>14 = Male | <b>Series Number</b> | <b>Number of Positions</b>                                                | <b>Variation Code</b><br>0 = Without strain relief<br>1 = With strain relief<br>5 = Without strain relief, with vacuum cover<br>6 = With strain relief, with vacuum cover | <b>Finish Code</b> |
|                            |                      | 020<br>030<br>040<br>050<br>060<br>070<br>080<br>090<br>100<br>110<br>120 |                                                                                                                                                                           |                    |

Parts are supplied in tape and reel packaging with 1000 pieces per reel.

| Mated Height | P/N    |                     |
|--------------|--------|---------------------|
| 3.0mm        | Female | 24 5046 XXX X00 829 |
|              | Male   | 14 5046 XXX X30 829 |

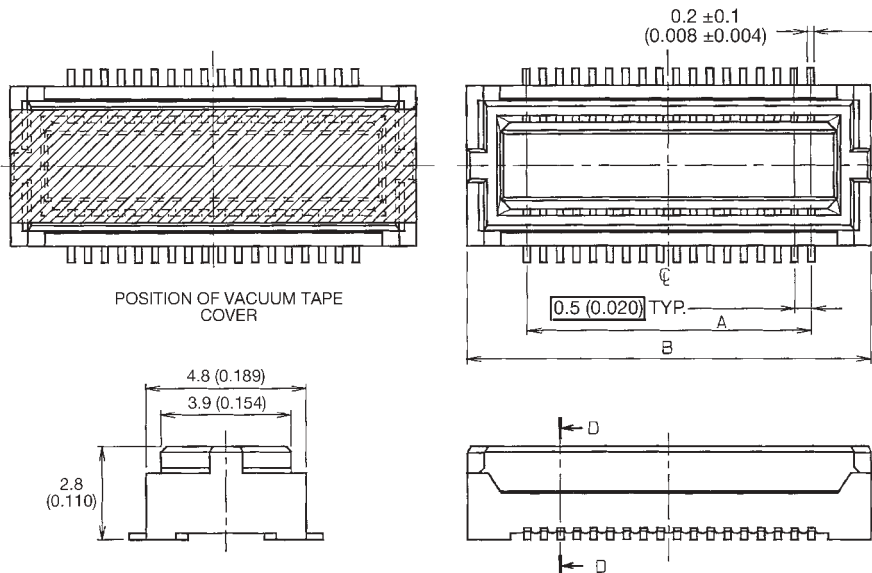
# Fine Pitch SMT Board to Board Connectors

## Series 5046

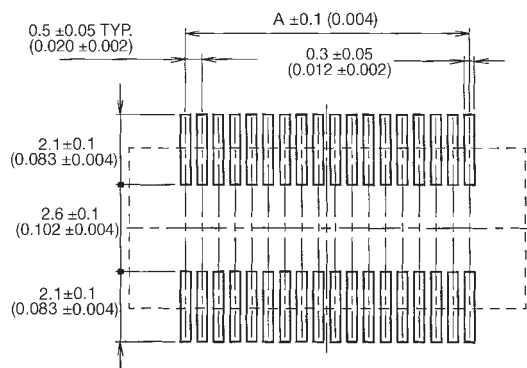
### Plug for Mated Height with Receptacle of 3.5mm



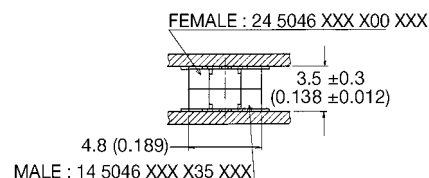
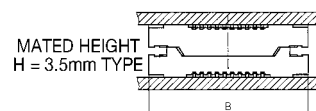
Without Strain Relief



| No. of<br>Pos. | Dimension       |                 |
|----------------|-----------------|-----------------|
|                | A               | B               |
| 020            | 4.5<br>(0.177)  | 8.1<br>(0.319)  |
| 030            | 7.0<br>(0.276)  | 10.6<br>(0.417) |
| 040            | 9.5<br>(0.374)  | 13.1<br>(0.516) |
| 050            | 12.0<br>(0.472) | 15.6<br>(0.614) |
| 060            | 14.5<br>(0.571) | 18.1<br>(0.713) |
| 070            | 17.0<br>(0.669) | 20.6<br>(0.811) |
| 080            | 19.5<br>(0.768) | 23.1<br>(0.909) |
| 090            | 22.0<br>(0.866) | 25.6<br>(1.008) |
| 100            | 24.0<br>(0.945) | 28.1<br>(1.106) |
| 110            | 27.0<br>(1.063) | 30.5<br>(1.201) |
| 120            | 29.5<br>(1.161) | 33.1<br>(1.303) |



RECOMMENDED P.C. BOARD LAYOUT



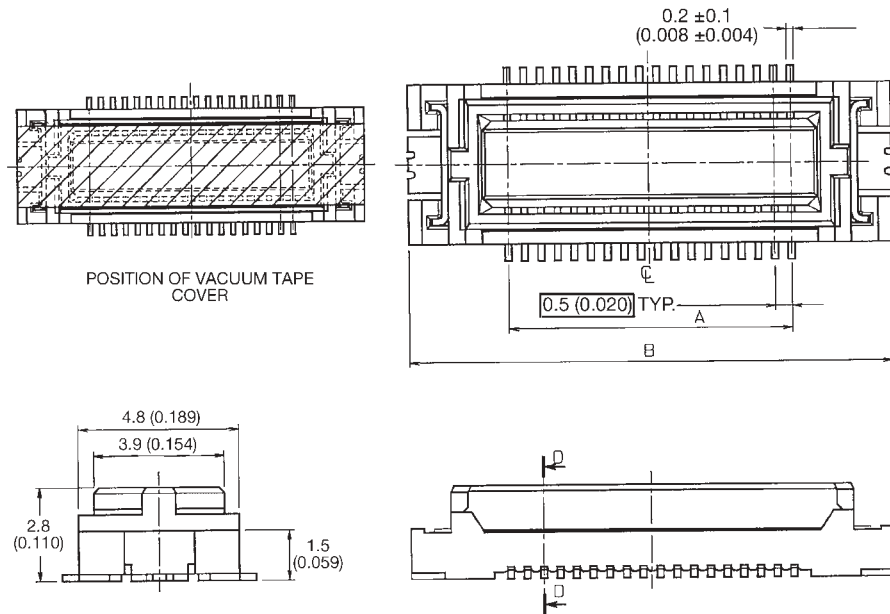
# Fine Pitch SMT Board to Board Connectors

## Series 5046

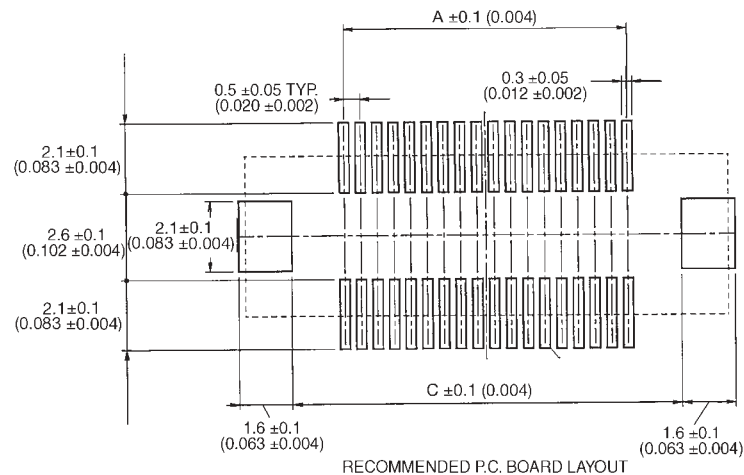
### Plug for Mated Height with Receptacle of 3.5mm



With Strain Relief



| No. of<br>Pos. | Dimension       |                 |                 |
|----------------|-----------------|-----------------|-----------------|
|                | A               | B               | C               |
| 020            | 4.5<br>(0.177)  | 10.5<br>(0.413) | 7.7<br>(0.303)  |
| 030            | 7.0<br>(0.276)  | 13.0<br>(0.512) | 10.2<br>(0.402) |
| 040            | 9.5<br>(0.374)  | 15.5<br>(0.610) | 12.7<br>(0.500) |
| 050            | 12.0<br>(0.472) | 18.0<br>(0.709) | 15.2<br>(0.598) |
| 060            | 14.5<br>(0.571) | 20.5<br>(0.807) | 17.7<br>(0.697) |
| 070            | 17.0<br>(0.669) | 23.0<br>(0.906) | 20.2<br>(0.795) |
| 080            | 19.5<br>(0.768) | 25.5<br>(1.004) | 22.7<br>(0.894) |
| 090            | 22.0<br>(0.866) | 28.0<br>(1.102) | 25.2<br>(0.992) |
| 100            | 24.5<br>(0.945) | 30.5<br>(1.201) | 27.7<br>(1.091) |
| 110            | 27.0<br>(1.063) | 33.0<br>(1.299) | 30.2<br>(1.189) |
| 120            | 29.5<br>(1.161) | 35.5<br>(1.398) | 32.7<br>(1.287) |



## HOW TO ORDER

**14**  
Prefix  
14 = Male

**5046**  
Series Number

**XXX**  
Number of Positions

**X35**  
Variation Code  
0 = Without strain relief  
1 = With strain relief  
5 = Without strain relief,  
with vacuum cover  
6 = With strain relief,  
with vacuum cover

**829**  
Finish Code

Parts are supplied in tape and reel packaging  
with 1000 pieces per reel.

| Mated Height | P/N    |                     |
|--------------|--------|---------------------|
| 3.5mm        | Female | 24 5046 XXX X00 829 |
|              | Male   | 14 5046 XXX X35 829 |

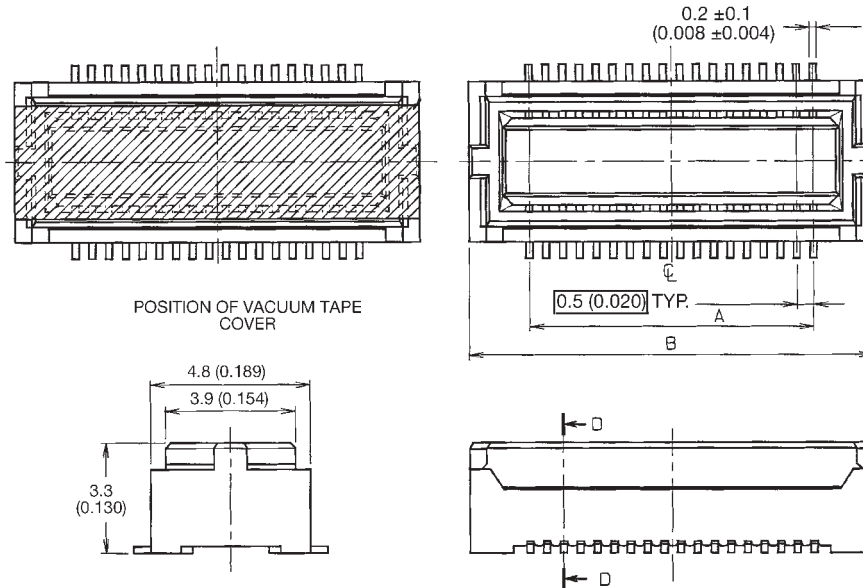
# Fine Pitch SMT Board to Board Connectors

## Series 5046

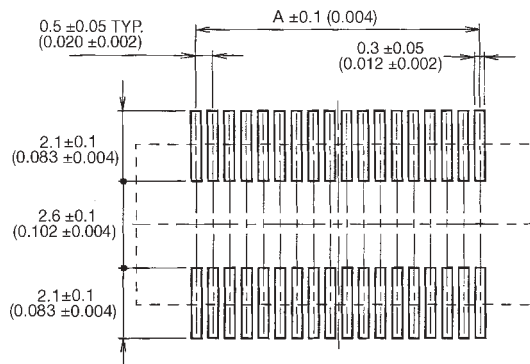
### Plug for Mated Height with Receptacle of 4.0mm



Without Strain Relief

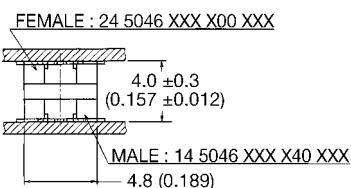
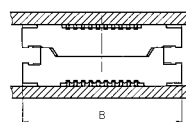


| No. of Pos. | Dimension       |                 |
|-------------|-----------------|-----------------|
|             | A               | B               |
| 020         | 4.5<br>(0.177)  | 8.1<br>(0.319)  |
| 030         | 7.0<br>(0.276)  | 10.6<br>(0.417) |
| 040         | 9.5<br>(0.374)  | 13.1<br>(0.516) |
| 050         | 12.0<br>(0.472) | 15.6<br>(0.614) |
| 060         | 14.5<br>(0.571) | 18.1<br>(0.713) |
| 070         | 17.0<br>(0.669) | 20.6<br>(0.811) |
| 080         | 19.5<br>(0.768) | 23.1<br>(0.909) |
| 090         | 22.0<br>(0.866) | 25.6<br>(1.008) |
| 100         | 24.0<br>(0.945) | 28.1<br>(1.106) |
| 110         | 27.0<br>(1.063) | 30.5<br>(1.201) |
| 120         | 29.5<br>(1.161) | 33.1<br>(1.303) |



RECOMMENDED P.C. BOARD LAYOUT

MATED HEIGHT  
H = 4mm TYPE



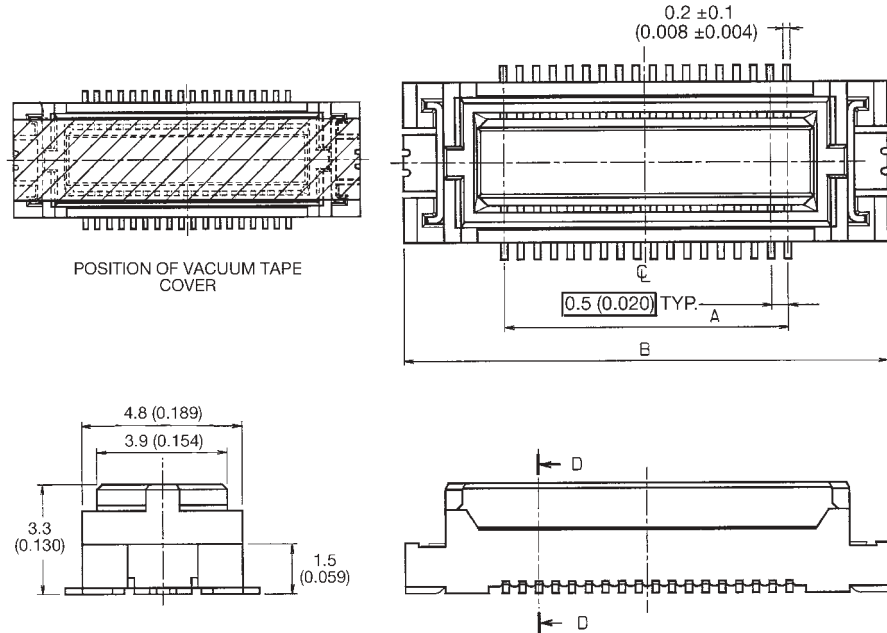
# Fine Pitch SMT Board to Board Connectors



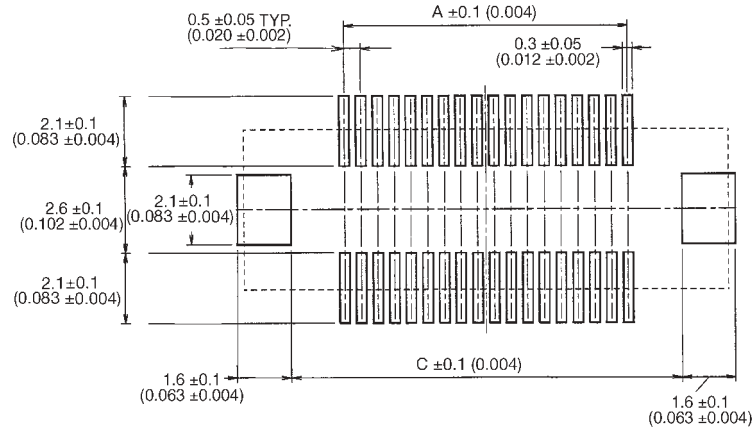
## Series 5046

### Plug for Mated Height with Receptacle of 4.0mm

With Strain Relief



| No. of Pos. | Dimension       |                 |                 |
|-------------|-----------------|-----------------|-----------------|
|             | A               | B               | C               |
| 020         | 4.5<br>(0.177)  | 10.5<br>(0.413) | 7.7<br>(0.303)  |
| 030         | 7.0<br>(0.276)  | 13.0<br>(0.512) | 10.2<br>(0.402) |
| 040         | 9.5<br>(0.374)  | 15.5<br>(0.610) | 12.7<br>(0.500) |
| 050         | 12.0<br>(0.472) | 18.0<br>(0.709) | 15.2<br>(0.598) |
| 060         | 14.5<br>(0.571) | 20.5<br>(0.807) | 17.7<br>(0.697) |
| 070         | 17.0<br>(0.669) | 23.0<br>(0.906) | 20.2<br>(0.795) |
| 080         | 19.5<br>(0.768) | 25.5<br>(1.004) | 22.7<br>(0.894) |
| 090         | 22.0<br>(0.866) | 28.0<br>(1.102) | 25.2<br>(0.992) |
| 100         | 24.5<br>(0.965) | 30.5<br>(1.201) | 27.7<br>(1.091) |
| 110         | 27.0<br>(1.063) | 33.0<br>(1.299) | 30.2<br>(1.189) |
| 120         | 29.5<br>(1.161) | 35.5<br>(1.398) | 32.7<br>(1.287) |



RECOMMENDED P.C. BOARD LAYOUT

## HOW TO ORDER

14

**Prefix**  
14 = Male

5046

**Series Number**

XXX

**Number of Positions**

020  
030  
040  
050  
060  
070  
080  
090  
100  
110  
120

X40

**Variation Code**  
0 = Without strain relief  
1 = With strain relief  
5 = Without strain relief, with vacuum cover  
6 = With strain relief, with vacuum cover

829

**Finish Code**

Parts are supplied in tape and reel packaging with 1000 pieces per reel.

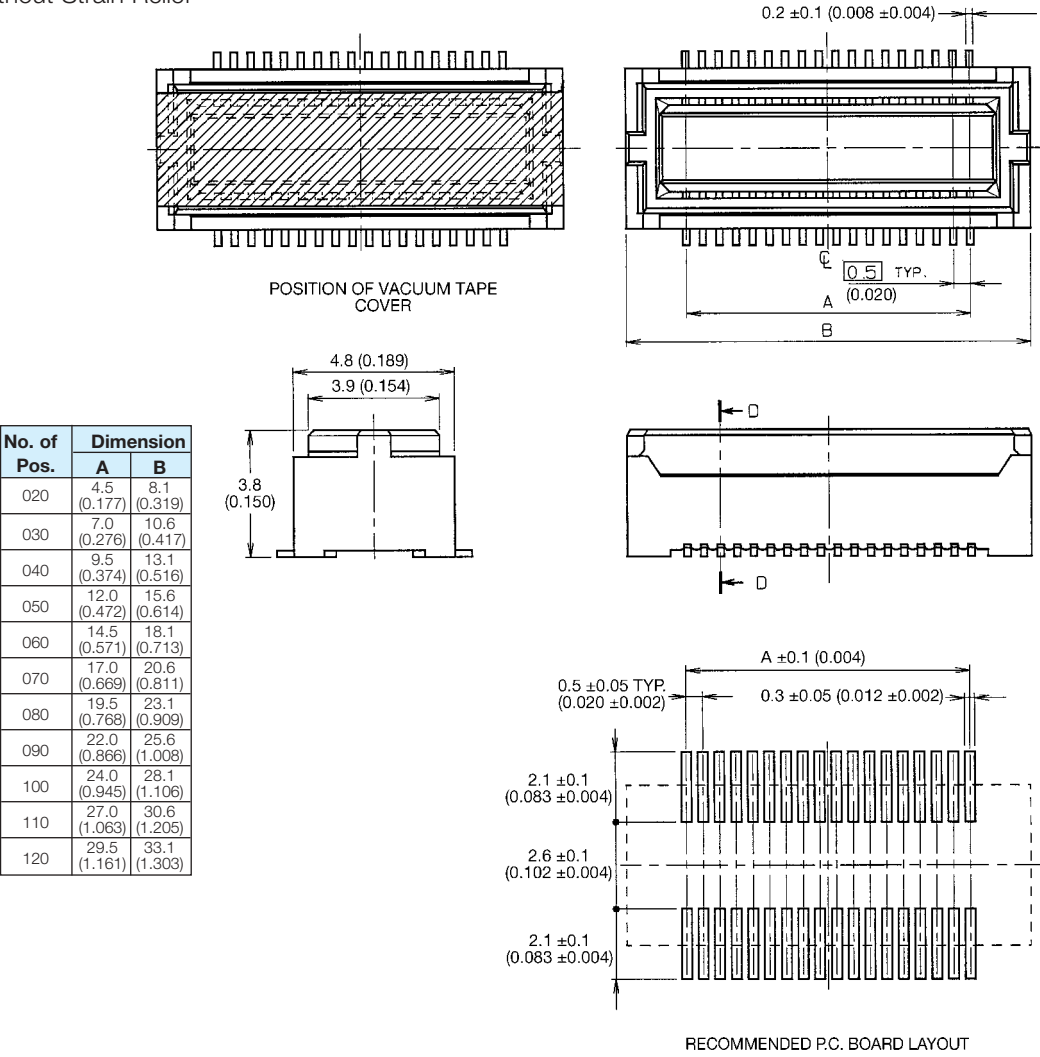
| Mated Height | P/N    |                     |
|--------------|--------|---------------------|
| 4.0mm        | Female | 24 5046 XXX X00 829 |
|              | Male   | 14 5046 XXX X40 829 |

# Fine Pitch SMT Board to Board Connectors

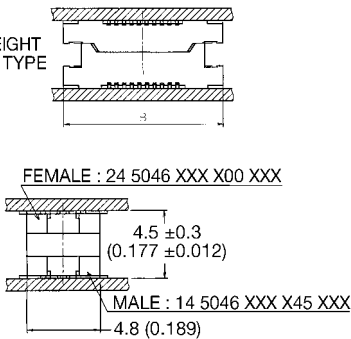
## Series 5046

### Plug for Mated Height with Receptacle of 4.5mm

Without Strain Relief



MATED HEIGHT  
H = 4.5mm TYPE



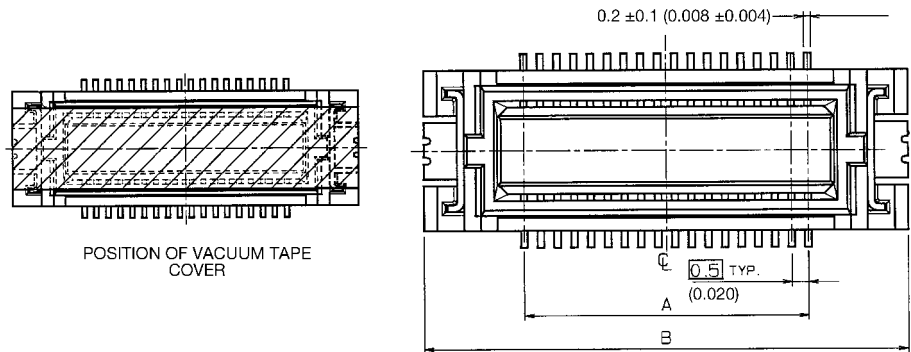


# Fine Pitch SMT Board to Board Connectors

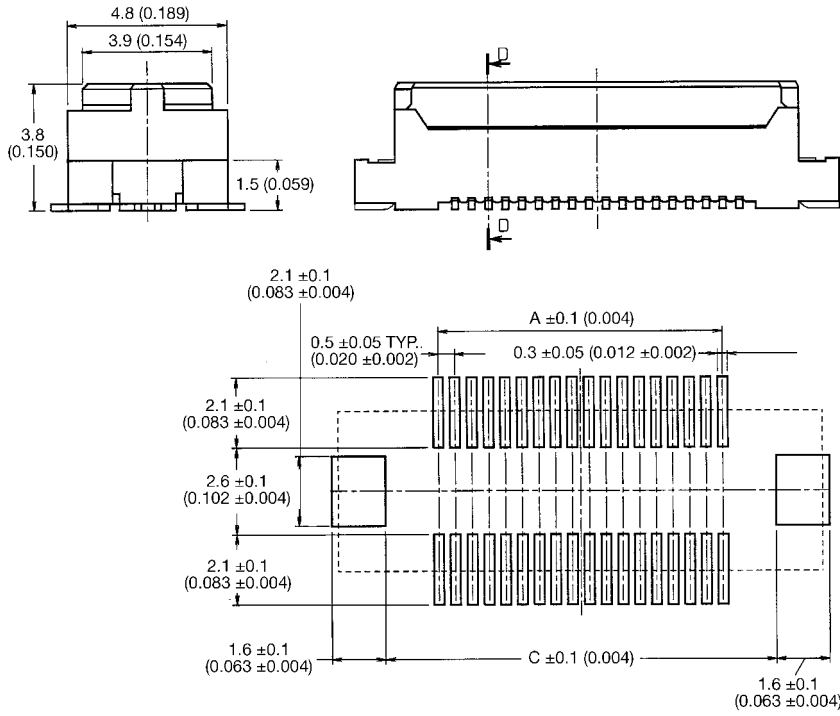
## Series 5046

### Plug for Mated Height with Receptacle of 4.5mm

With Strain Relief



| No. of<br>Pos. | Dimension       |                 |                 |
|----------------|-----------------|-----------------|-----------------|
|                | A               | B               | C               |
| 020            | 4.5<br>(0.177)  | 10.5<br>(0.413) | 7.7<br>(0.303)  |
| 030            | 7.0<br>(0.276)  | 13.0<br>(0.512) | 10.2<br>(0.402) |
| 040            | 9.5<br>(0.374)  | 15.5<br>(0.610) | 12.7<br>(0.500) |
| 050            | 12.0<br>(0.472) | 18.0<br>(0.709) | 15.2<br>(0.598) |
| 060            | 14.5<br>(0.571) | 20.5<br>(0.807) | 17.7<br>(0.697) |
| 070            | 17.0<br>(0.669) | 23.0<br>(0.906) | 20.2<br>(0.795) |
| 080            | 19.5<br>(0.768) | 25.5<br>(1.004) | 22.7<br>(0.894) |
| 090            | 22.0<br>(0.866) | 28.0<br>(1.102) | 25.2<br>(0.992) |
| 100            | 24.5<br>(0.965) | 30.5<br>(1.201) | 27.7<br>(1.091) |
| 110            | 27.0<br>(1.063) | 33.0<br>(1.299) | 30.2<br>(1.189) |
| 120            | 29.5<br>(1.161) | 35.5<br>(1.398) | 32.7<br>(1.287) |



RECOMMENDED P.C. BOARD LAYOUT

## HOW TO ORDER

14

Prefix  
14 = Male

5046

Series Number

XXX

Number of Positions

X45

Variation Code  
0 = Without strain relief  
1 = With strain relief  
5 = Without strain relief,  
with vacuum cover  
6 = With strain relief,  
with vacuum cover

829

Finish Code

Parts are supplied in tape and reel packaging  
with 1000 pieces per reel.

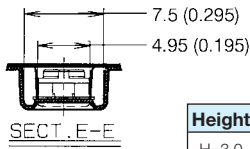
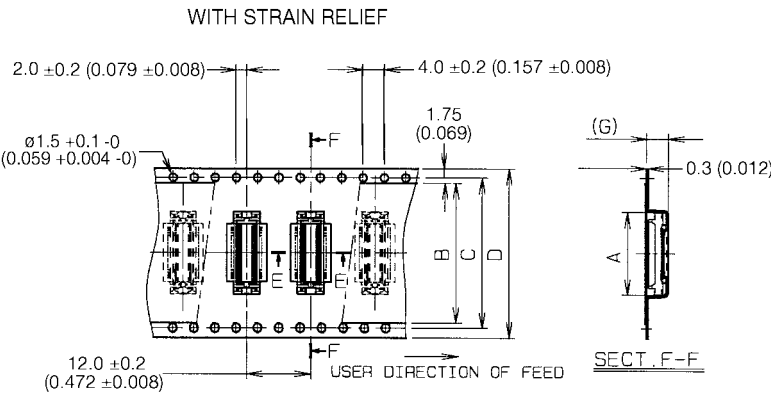
| Mated Height | P/N    |                     |
|--------------|--------|---------------------|
| 4.5mm        | Female | 24 5046 XXX X00 829 |
|              | Male   | 14 5046 XXX X45 829 |

# Fine Pitch SMT

## Board to Board Connectors

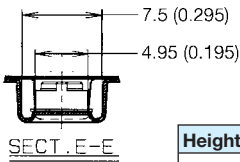
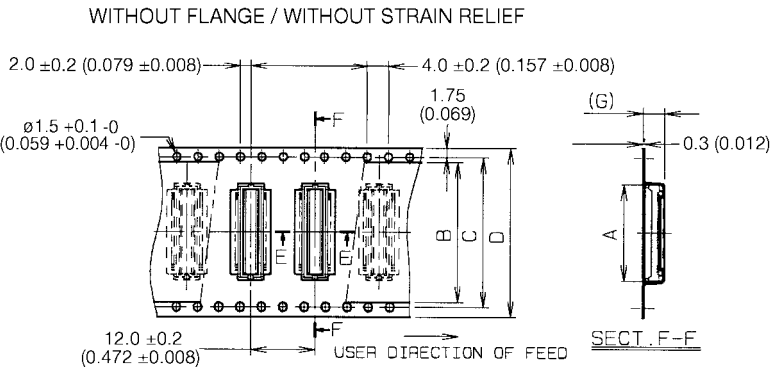
### Series 5046 Plug Tape and Reel Package

#### H=3.0, 3.5, 4.0, 4.5mm



| Height | G              |
|--------|----------------|
| H=3.0  | 4.1<br>(0.161) |
| H=3.5  | 4.1<br>(0.161) |
| H=4.0  | 4.6<br>(0.181) |
| H=4.5  | 4.6<br>(0.181) |

|           | No. of Pos. | A            | B            | C            | D            |
|-----------|-------------|--------------|--------------|--------------|--------------|
| 32mm Tape | 020         | 8.1 (0.319)  |              |              |              |
|           | 030         | 10.6 (0.417) |              |              |              |
|           | 040         | 13.1 (0.516) | 26.5 (1.043) | 28.4 (1.118) | 32.0 (1.260) |
|           | 050         | 15.6 (0.614) |              |              |              |
|           | 060         | 18.1 (0.713) |              |              |              |
| 44mm Tape | 070         | 20.6 (0.811) |              |              |              |
|           | 080         | 23.1 (0.909) | 38.5 (1.516) | 40.4 (1.591) | 44.0 (1.732) |
|           | 090         | 25.6 (1.008) |              |              |              |
|           | 100         | 28.1 (1.106) |              |              |              |
| 56mm Tape | 110         | 30.6 (1.205) | 50.5 (1.988) | 52.4 (2.063) | 56.0 (2.205) |
|           | 120         | 33.1 (1.303) |              |              |              |



| Height | G              |
|--------|----------------|
| H=3.0  | 4.1<br>(0.161) |
| H=3.5  | 4.1<br>(0.161) |
| H=4.0  | 4.6<br>(0.181) |
| H=4.5  | 4.6<br>(0.181) |

|           | No. of Pos. | A            | B            | C            | D            |
|-----------|-------------|--------------|--------------|--------------|--------------|
| 32mm Tape | 020         | 8.1 (0.319)  |              |              |              |
|           | 030         | 10.6 (0.417) |              |              |              |
|           | 040         | 13.1 (0.516) | 26.5 (1.043) | 28.4 (1.118) | 32.0 (1.260) |
|           | 050         | 15.6 (0.614) |              |              |              |
|           | 060         | 18.1 (0.713) |              |              |              |
| 44mm Tape | 070         | 20.6 (0.811) |              |              |              |
|           | 080         | 23.1 (0.909) | 38.5 (1.516) | 40.4 (1.591) | 44.0 (1.732) |
|           | 090         | 25.6 (1.008) |              |              |              |
|           | 100         | 28.1 (1.106) |              |              |              |
| 56mm Tape | 110         | 30.6 (1.205) | 50.5 (1.988) | 52.4 (2.063) | 56.0 (2.205) |
|           | 120         | 33.1 (1.303) |              |              |              |

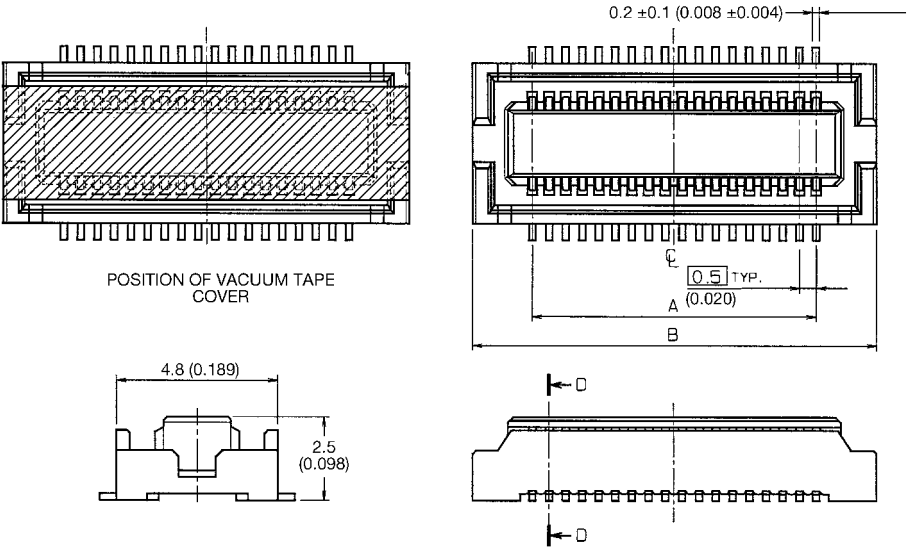
# Fine Pitch SMT Board to Board Connectors



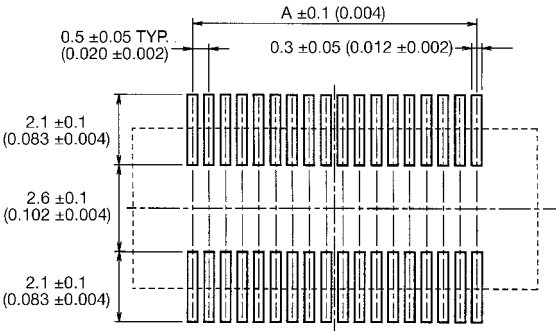
Series 5046

Receptacle for Mated Height with Plug of 3.0, 3.5, 4.0 or 4.5mm

Without Strain Relief



| No. of<br>Pos. | Dimension       |                 |
|----------------|-----------------|-----------------|
|                | A               | B               |
| 020            | 4.5<br>(0.177)  | 8.1<br>(0.319)  |
| 030            | 7.0<br>(0.276)  | 10.6<br>(0.417) |
| 040            | 9.5<br>(0.374)  | 13.1<br>(0.516) |
| 050            | 12.0<br>(0.472) | 15.6<br>(0.614) |
| 060            | 14.5<br>(0.571) | 18.1<br>(0.713) |
| 070            | 17.0<br>(0.669) | 20.6<br>(0.811) |
| 080            | 19.5<br>(0.768) | 23.1<br>(0.909) |
| 090            | 22.0<br>(0.866) | 25.6<br>(1.008) |
| 100            | 24.5<br>(0.965) | 28.1<br>(1.106) |
| 110            | 27.0<br>(1.063) | 30.6<br>(1.205) |
| 120            | 29.5<br>(1.161) | 33.1<br>(1.303) |



RECOMMENDED P.C. BOARD LAYOUT

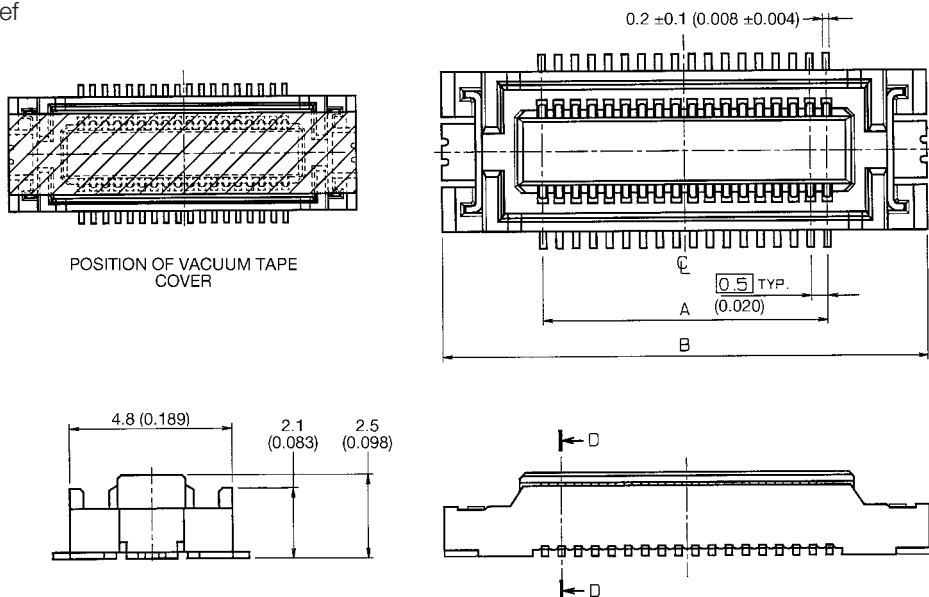
# Fine Pitch SMT Board to Board Connectors



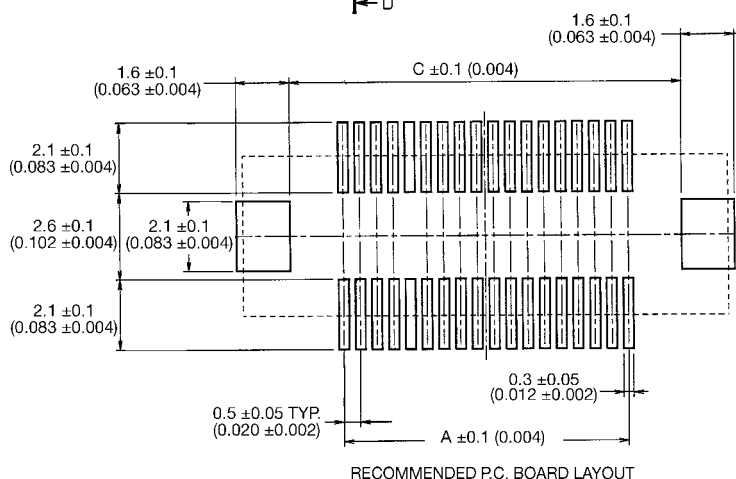
## Series 5046

Receptacle for Mated Height with Plug of 3.0, 3.5, 4.0 or 4.5mm

With Strain Relief



| No. of<br>Pos. | Dimension       |                 |                 |
|----------------|-----------------|-----------------|-----------------|
|                | A               | B               | C               |
| 020            | 4.5<br>(0.177)  | 10.5<br>(0.413) | 7.7<br>(0.303)  |
| 030            | 7.0<br>(0.276)  | 13.0<br>(0.512) | 10.2<br>(0.402) |
| 040            | 9.5<br>(0.374)  | 15.5<br>(0.610) | 12.7<br>(0.500) |
| 050            | 12.0<br>(0.472) | 18.0<br>(0.709) | 15.2<br>(0.598) |
| 060            | 14.5<br>(0.571) | 20.5<br>(0.807) | 17.7<br>(0.697) |
| 070            | 17.0<br>(0.669) | 23.0<br>(0.906) | 20.2<br>(0.795) |
| 080            | 19.5<br>(0.768) | 25.5<br>(1.004) | 22.7<br>(0.894) |
| 090            | 22.0<br>(0.866) | 28.0<br>(1.102) | 25.2<br>(0.992) |
| 100            | 24.5<br>(0.965) | 30.5<br>(1.201) | 27.7<br>(1.091) |
| 110            | 27.0<br>(1.063) | 33.0<br>(1.299) | 30.2<br>(1.189) |
| 120            | 29.5<br>(1.161) | 35.5<br>(1.398) | 32.7<br>(1.287) |



RECOMMENDED P.C. BOARD LAYOUT

## HOW TO ORDER

24

**Prefix**  
24 = Female

5046

**Series Number**

XXX

**Number of Positions**

020  
030  
040  
050  
060  
070  
080  
090  
100  
110  
120

X00

**Variation Code**

0 = Without strain relief  
1 = With strain relief  
5 = Without strain relief,  
with vacuum cover  
6 = With strain relief,  
with vacuum cover

829

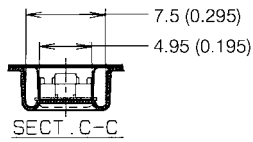
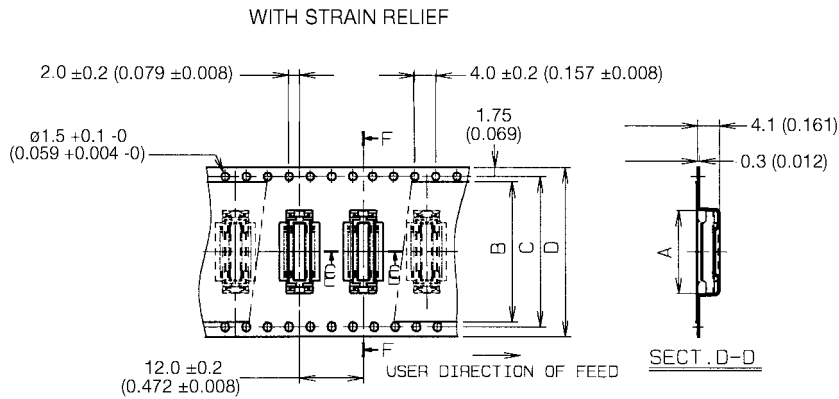
**Finish Code**

Parts are supplied in tape and reel packaging  
with 1000 pieces per reel.

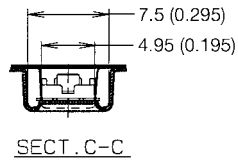
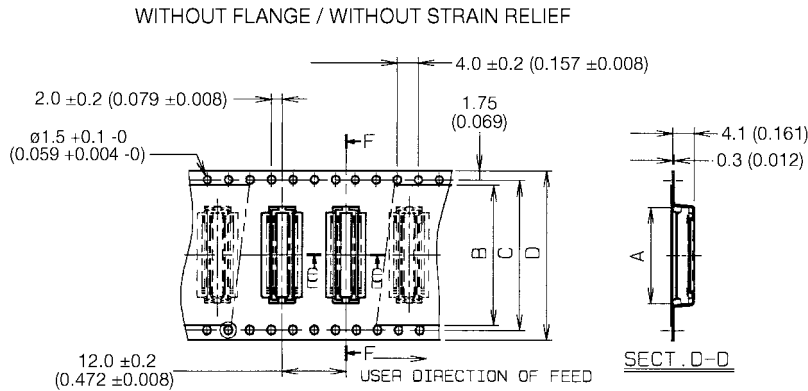
| Mated Height | P/N    |                     |
|--------------|--------|---------------------|
| 4.5mm        | Female | 24 5046 XXX X00 829 |
|              | Male   | 14 5046 XXX X45 829 |
| 4.0mm        | Female | 24 5046 XXX X00 829 |
|              | Male   | 14 5046 XXX X40 829 |
| 3.5mm        | Female | 24 5046 XXX X00 829 |
|              | Male   | 14 5046 XXX X35 829 |
| 3.0mm        | Female | 24 5046 XXX X00 829 |
|              | Male   | 14 5046 XXX X30 829 |

# Fine Pitch SMT Board to Board Connectors

## Series 5046 Receptacle Tape and Reel Package



|           | No. of Pos. | A             | B            | C            | D            |
|-----------|-------------|---------------|--------------|--------------|--------------|
| 32mm Tape | 020         | 10.65 (0.419) |              |              |              |
|           | 030         | 13.15 (0.518) |              |              |              |
|           | 040         | 15.65 (0.616) | 26.5 (1.043) | 28.4 (1.118) | 32.0 (1.260) |
|           | 050         | 18.15 (0.715) |              |              |              |
|           | 060         | 20.65 (0.813) |              |              |              |
| 44mm Tape | 070         | 23.15 (0.911) |              |              |              |
|           | 080         | 25.65 (1.010) | 38.5 (1.516) | 40.4 (1.591) | 44.0 (1.732) |
|           | 090         | 28.15 (1.108) |              |              |              |
|           | 100         | 30.65 (1.207) |              |              |              |
| 56mm Tape | 110         | 33.15 (1.305) | 50.5 (1.988) | 52.4 (2.063) | 56.0 (2.205) |
|           | 120         | 35.65 (1.404) |              |              |              |



|           | No. of Pos. | A             | B            | C            | D            |
|-----------|-------------|---------------|--------------|--------------|--------------|
| 32mm Tape | 020         | 10.65 (0.419) |              |              |              |
|           | 030         | 13.15 (0.518) |              |              |              |
|           | 040         | 15.65 (0.616) | 26.5 (1.043) | 28.4 (1.118) | 32.0 (1.260) |
|           | 050         | 18.15 (0.715) |              |              |              |
|           | 060         | 20.65 (0.813) |              |              |              |
| 44mm Tape | 070         | 23.15 (0.911) |              |              |              |
|           | 080         | 25.65 (1.010) | 38.5 (1.516) | 40.4 (1.591) | 44.0 (1.732) |
|           | 090         | 28.15 (1.108) |              |              |              |
|           | 100         | 30.65 (1.207) |              |              |              |
| 56mm Tape | 110         | 33.15 (1.305) | 50.5 (1.988) | 52.4 (2.063) | 56.0 (2.205) |
|           | 120         | 35.65 (1.403) |              |              |              |

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

AVX:

145046060645829+