

# Fine Pitch SMT Board to Board Connectors

## Series 5602

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Series 5602 is a two-piece 0.4mm pitch, PCB stacking connector. Offered at a 1.5mm stack height, Series 5602 is ideal for high density packaging applications.

Market applications include mobile PC's, PDA's, DVD, Cell Phones and Digital Cameras.

### FEATURES

0.4mm fine pitch and low profile connector, with stacking height of 1.5mm. These features result in the highest density stacking connector in the industry.

The connector design provides for an audible click, which confirms that the contacts are properly mated.

Offered with, and without, metal strain relief and boss.

Designed to prevent solder wicking.

Enclosed SMT contacts, provide for high density routing, by allowing traces to be located under the connector.

Ideal for FPC to PCB connections.

Compatible with high temperature, lead free, soldering processes.

Packaging consists of 2,000 connectors per reel.

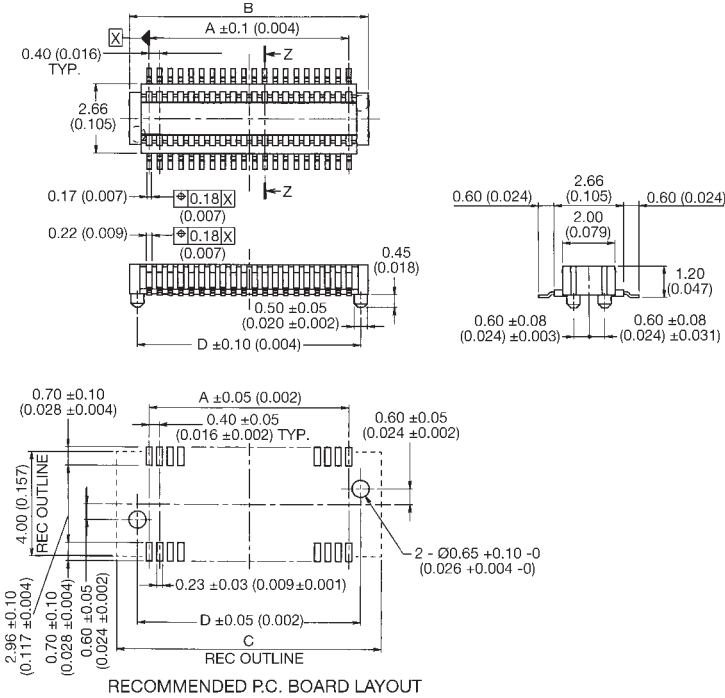
### SPECIFICATIONS

|               |               |
|---------------|---------------|
| Series        | 5602          |
| Mated Height  | 1.5mm         |
| Pitch         | 0.4mm         |
| Current       | 0.4A Max      |
| Voltage       | 50V Max       |
| D.W. Voltage  | 250V Max/min. |
| Mating Cycles | 30            |

# Fine Pitch SMT Board to Board Connectors

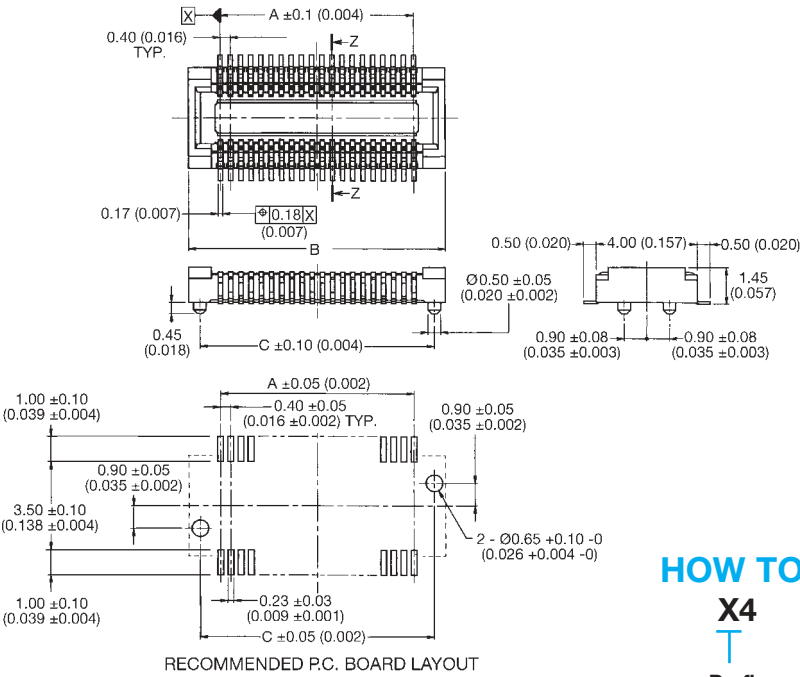
## Series 5602 – 1.5mm Mated Height, without Strain Relief

### PLUG



| No. of Pos. | Dimension    |              |              |              |
|-------------|--------------|--------------|--------------|--------------|
|             | A            | B            | C            | D            |
| 020         | 3.6 (0.142)  | 5.1 (0.201)  | 6.1 (0.205)  | 4.5 (0.177)  |
| 024         | 4.4 (0.173)  | 5.9 (0.232)  | 6.9 (0.272)  | 5.3 (0.209)  |
| 030         | 5.6 (0.220)  | 7.1 (0.280)  | 8.1 (0.319)  | 6.5 (0.256)  |
| 034         | 6.4 (0.252)  | 7.9 (0.311)  | 8.9 (0.350)  | 7.3 (0.287)  |
| 040         | 7.6 (0.300)  | 9.1 (0.358)  | 10.1 (0.397) | 8.5 (0.335)  |
| 050         | 9.6 (0.378)  | 11.1 (0.437) | 12.1 (0.478) | 10.5 (0.413) |
| 060         | 11.6 (0.457) | 13.1 (0.516) | 14.1 (0.555) | 12.5 (0.492) |
| 070         | 13.6 (0.535) | 15.1 (0.594) | 16.1 (0.634) | 14.5 (0.571) |
| 080         | 15.6 (0.614) | 17.1 (0.673) | 18.1 (0.713) | 16.5 (0.650) |

### RECEPTACLE



| No. of Pos. | Dimension    |              |              |
|-------------|--------------|--------------|--------------|
|             | A            | B            | C            |
| 020         | 3.6 (0.142)  | 6.1 (0.240)  | 5.2 (0.20)   |
| 024         | 4.4 (0.173)  | 6.9 (0.272)  | 6.0 (0.236)  |
| 030         | 5.6 (0.220)  | 8.1 (0.319)  | 7.2 (0.283)  |
| 034         | 6.6 (0.260)  | 8.9 (0.350)  | 8.0 (0.315)  |
| 040         | 7.6 (0.300)  | 10.1 (0.397) | 9.2 (0.360)  |
| 050         | 9.6 (0.378)  | 12.1 (0.476) | 11.2 (0.441) |
| 060         | 11.6 (0.457) | 14.1 (0.555) | 13.2 (0.520) |
| 070         | 13.6 (0.535) | 16.1 (0.634) | 15.2 (0.598) |
| 080         | 15.6 (0.614) | 18.1 (0.713) | 17.2 (0.677) |

### HOW TO ORDER

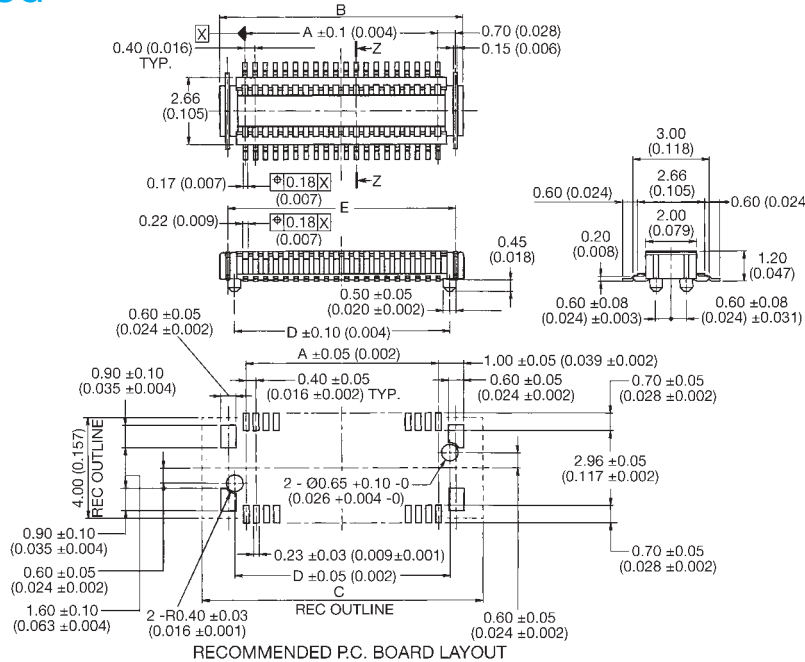
| X4                           | 5602          | XXX                                                         | 00X                                                                                   | 829         |
|------------------------------|---------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------|
| Prefix                       | Series Number | Number of Positions                                         | Variation Code                                                                        | Finish Code |
| 14 = Plug<br>24 = Receptacle |               | 020<br>024<br>030<br>034<br>040<br>050<br>060<br>070<br>080 | 0 = Without Strain Relief and without Boss<br>1 = Without Strain Relief and with Boss |             |

Parts are supplied in tape and reel packaging with 2000 pieces per reel.

# Fine Pitch SMT Board to Board Connectors

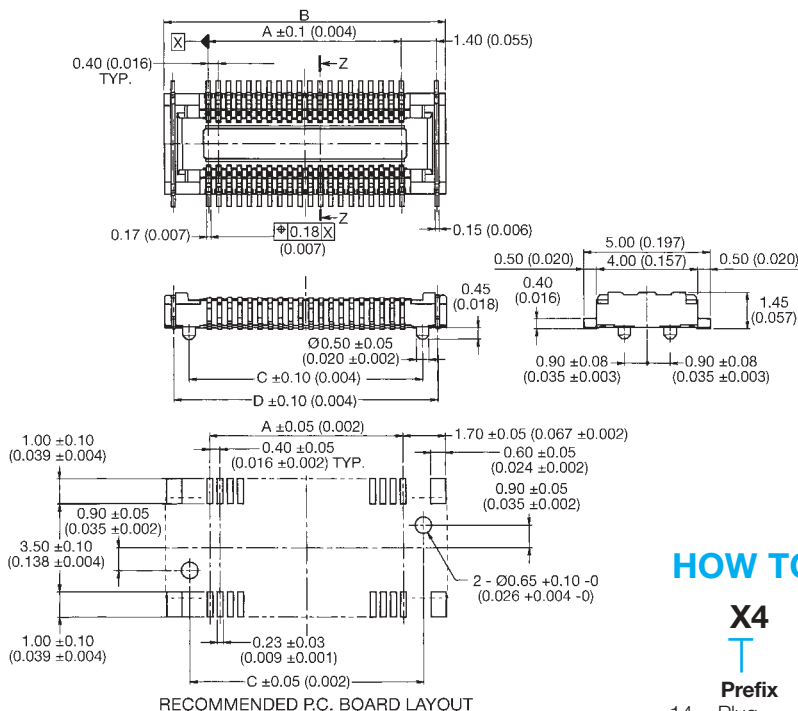
## Series 5602 – 1.5mm Mated Height, with Strain Relief

### PLUG



| No. of Pos. | Dimension    |              |              |              |              |
|-------------|--------------|--------------|--------------|--------------|--------------|
|             | A            | B            | C            | D            | E            |
| 020         | 3.6 (0.142)  | 5.6 (0.220)  | 7.1 (0.280)  | 4.5 (0.177)  | 5.0 (0.197)  |
| 024         | 4.4 (0.173)  | 6.4 (0.252)  | 7.9 (0.311)  | 5.3 (0.209)  | 5.8 (0.228)  |
| 030         | 5.6 (0.220)  | 7.6 (0.299)  | 9.1 (0.358)  | 6.5 (0.256)  | 7.0 (0.276)  |
| 034         | 6.4 (0.252)  | 8.4 (0.331)  | 9.9 (0.390)  | 7.3 (0.287)  | 7.8 (0.307)  |
| 040         | 7.6 (0.300)  | 9.6 (0.378)  | 11.1 (0.437) | 8.5 (0.335)  | 9.0 (0.354)  |
| 050         | 9.6 (0.378)  | 11.6 (0.457) | 13.1 (0.516) | 10.5 (0.413) | 11.0 (0.433) |
| 060         | 11.6 (0.457) | 13.6 (0.535) | 15.1 (0.594) | 12.5 (0.492) | 13.0 (0.512) |
| 070         | 13.6 (0.535) | 15.6 (0.614) | 17.1 (0.673) | 14.5 (0.571) | 15.0 (0.591) |
| 080         | 15.6 (0.614) | 17.6 (0.693) | 19.1 (0.752) | 16.5 (0.650) | 17.0 (0.669) |

### RECEPTACLE



| No. of Pos. | Dimension    |              |              |              |
|-------------|--------------|--------------|--------------|--------------|
|             | A            | B            | C            | D            |
| 020         | 3.6 (0.142)  | 7.1 (0.280)  | 5.2 (0.205)  | 6.4 (0.252)  |
| 024         | 4.4 (0.173)  | 7.9 (0.311)  | 6.0 (0.236)  | 7.2 (0.283)  |
| 030         | 5.6 (0.220)  | 9.1 (0.358)  | 7.2 (0.283)  | 8.4 (0.331)  |
| 034         | 6.4 (0.252)  | 9.9 (0.390)  | 8.0 (0.315)  | 9.2 (0.362)  |
| 040         | 7.6 (0.300)  | 11.1 (0.437) | 9.2 (0.362)  | 10.4 (0.409) |
| 050         | 9.6 (0.378)  | 13.1 (0.516) | 11.2 (0.441) | 12.4 (0.488) |
| 060         | 11.6 (0.457) | 15.1 (0.594) | 13.2 (0.520) | 14.4 (0.567) |
| 070         | 13.6 (0.535) | 17.1 (0.673) | 15.2 (0.598) | 16.4 (0.646) |
| 080         | 15.6 (0.614) | 19.1 (0.752) | 17.2 (0.677) | 18.4 (0.724) |

### HOW TO ORDER

| X4                           | 5602          | XXX                                                         | 00X                                                                             | 829         |
|------------------------------|---------------|-------------------------------------------------------------|---------------------------------------------------------------------------------|-------------|
| Prefix                       | Series Number | Number of Positions                                         | Variation Code                                                                  | Finish Code |
| 14 = Plug<br>24 = Receptacle |               | 020<br>024<br>030<br>034<br>040<br>050<br>060<br>070<br>080 | 2 = With Strain Relief and without Boss<br>3 = With Strain Relief and with Boss |             |

Parts are supplied in tape and reel packaging with 2000 pieces per reel.

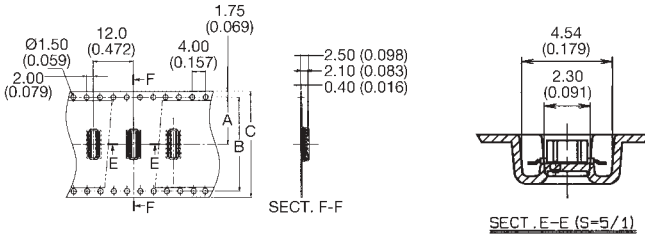
# Fine Pitch SMT Board to Board Connectors

## Series 5602

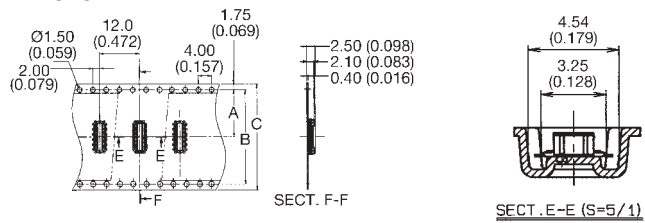
### Tape and Reel Package for Mated Height 1.5mm

### PLUG

#### Without Strain Relief



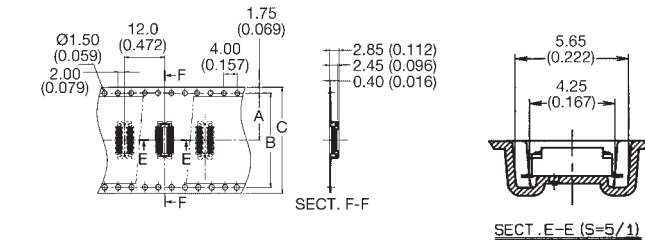
#### With Strain Relief



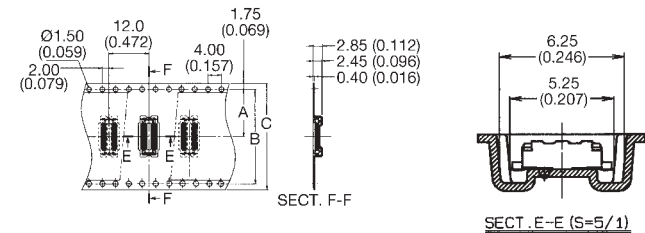
| No. of Pos. | Dimension    |              |            |               |
|-------------|--------------|--------------|------------|---------------|
|             | A            | B            | C          | D             |
| 020         | 11.5 (0.453) | —            | 24 (0.945) | 30.4 (1.197)  |
| 024         | 11.5 (0.453) | —            | 24 (0.945) | 30.4 (1.197)  |
| 030         | 11.5 (0.453) | —            | 24 (0.945) | 30.4 (1.197)  |
| 034         | 11.5 (0.453) | —            | 24 (0.945) | 30.42 (1.197) |
| 040         | 11.5 (0.453) | —            | 24 (0.945) | 30.4 (1.197)  |
| 050         | 14.2 (0.559) | 28.4 (0.921) | 32 (1.260) | 38.4 (1.512)  |
| 060         | 14.2 (0.559) | 28.4 (0.921) | 32 (1.260) | 38.4 (1.512)  |
| 070         | 14.2 (0.559) | 28.4 (0.921) | 32 (1.260) | 38.4 (1.512)  |
| 080         | 14.2 (0.559) | 28.4 (0.921) | 32 (1.260) | 38.4 (1.512)  |

### RECEPTACLE

#### Without Strain Relief



#### With Strain Relief



| No. of Pos. | Dimension    |              |            |               |
|-------------|--------------|--------------|------------|---------------|
|             | A            | B            | C          | D             |
| 020         | 11.5 (0.453) | —            | 24 (0.945) | 30.4 (1.197)  |
| 024         | 11.5 (0.453) | —            | 24 (0.945) | 30.4 (1.197)  |
| 030         | 11.5 (0.453) | —            | 24 (0.945) | 30.4 (1.197)  |
| 034         | 11.5 (0.453) | —            | 24 (0.945) | 30.42 (1.197) |
| 040         | 11.5 (0.453) | —            | 24 (0.945) | 30.4 (1.197)  |
| 050         | 14.2 (0.559) | 28.4 (0.921) | 32 (1.260) | 38.4 (1.512)  |
| 060         | 14.2 (0.559) | 28.4 (0.921) | 32 (1.260) | 38.4 (1.512)  |
| 070         | 14.2 (0.559) | 28.4 (0.921) | 32 (1.260) | 38.4 (1.512)  |
| 080         | 14.2 (0.559) | 28.4 (0.921) | 32 (1.260) | 38.4 (1.512)  |

### HOW TO ORDER

**X4**

**Prefix**

14 = Plug  
24 = Receptacle

**5602**

**Series Number**

**XXX**

**Number of Positions**

020  
024  
030  
034  
040  
050  
060  
070  
080

**00X**

**Variation Code**

0 = Without Strain Relief and without Boss  
1 = Without Strain Relief and with Boss  
2 = With Strain Relief and without Boss  
3 = With Strain Relief and with Boss

**829**

**Finish Code**

Specification of the catalog might be changed without notice.  
Please verify our drawing and specification with your design.  
Parts are supplied in tape and reel packaging with 2000 pieces per reel.