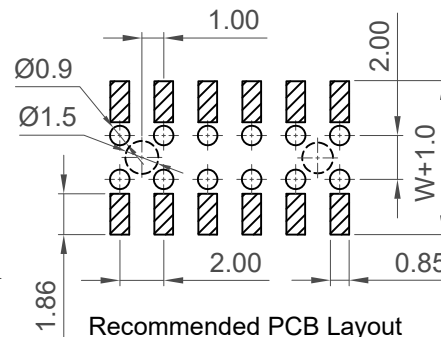
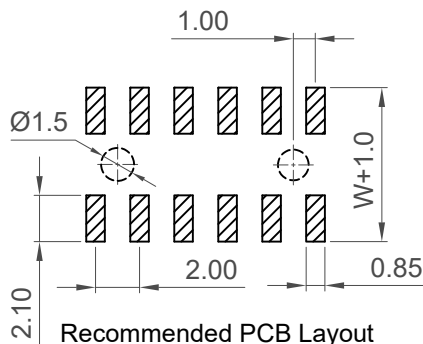
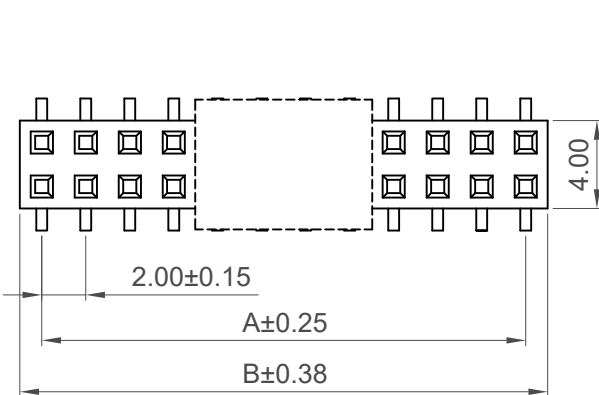


**Recommended PCB Layout**  
Top Entry General Tolerance:  $\pm 0.05$

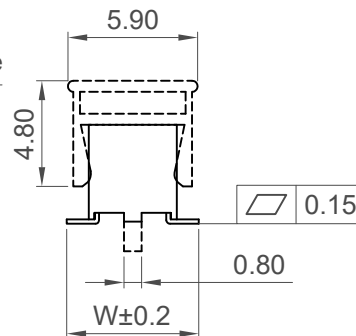
**Recommended PCB Layout**  
Bottom Entry General Tolerance:  $\pm 0.05$

Solder Area

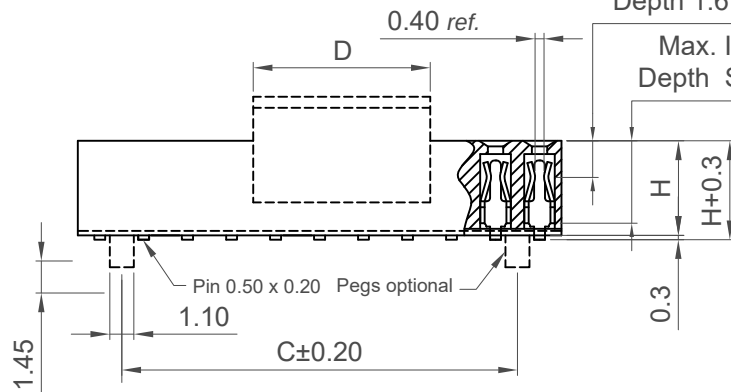
Solder Area

Min. Insertion  
Depth 1.67 ref.

Max. Insertion  
Depth See Table



| Insulator Height<br>H | No. of<br>Contacts | Dimension<br>D | Max.<br>Insertion<br>Depth |
|-----------------------|--------------------|----------------|----------------------------|
| 4.30                  | 04 ~ 16<br>18 ~ 80 | 4<br>8.05      | 4.50                       |
| 4.00                  | 04 ~ 16<br>18 ~ 80 | 4<br>8.05      | 4.30                       |



Ordering Grid

BF100-XX-X-X-X-XXXX-X-X

No. of Contacts  
04 to 80

Contact Plating

A = Gold Flash All Over (Standard)

B = Selective Gold Flash Contact Area/  
Tin On Tail

C = Tin All Over

G = 10 $\mu$ m Gold Contact Area/Tin On Tail

I = 30 $\mu$ m Gold Contact Area/Tin On Tail

Insulator Height 'H'

C = 4.00mm (Standard)

D = 4.30mm

Locating Peg  
0 = No Peg  
1 = With Peg

Request Samples  
and Quotation

Packing Options

C = Tape and Reel with Film (Standard)

B = Tape and Reel with Cap

D = Tube (available from 6 contacts)

E = Tube with Cap (available from 6 contacts)

F = Tube with Film (available from 6 contacts)

Insulator Material

N = Nylon 6T (Standard)

L = LCP

Dimension W - Footprint Width (1/100mm)

'H' = 4.00mm: Standard - 6.25mm = 0625

Alternative - 5.00mm = 0500

'H' = 4.30mm: Standard - 6.40mm = 0640

Alternative - 5.60mm = 0560

- 6.25mm = 0625

## Specifications

## Material

Contact: Phosphor Bronze

Insulator:

Standard: Polyamide, Nylon 6T, UL 94V-0

Options: Polymer, LCP, UL 94V-0

## Plating

See Ordering Grid

## Electrical

Current Rating: 2 Amp Per Pin

Insulation Resistance: 1000 M $\Omega$  min

Contact Resistance: 20 m $\Omega$  max.

Dielectric Withstand Voltage: AC 500 V

## Mechanical & Environmental

Operating Temperature: -40°C to +105°C

## Soldering Process:

Nylon 6T (Standard) -

IR Reflow: 260°C for 10 sec.

Wave: 230°C for 5-10 sec.

Manual Solder: 350°C for 3-5 sec

LCP (Option) -

IR Reflow: 260°C for 10 sec.

Wave: 250°C for 5-10 sec.

Manual Solder: 350°C for 3-5 sec

Mates with (Subject to pin length):

BF030 BF045 BF050 BF055

BF060 BF135 BF140 BF145

| Contacts | Dimensions |      |      |
|----------|------------|------|------|
|          | A          | B    | C    |
| 4        | 2.0        | 4.6  | /    |
| 6        | 4.0        | 6.6  | 2.0  |
| 8        | 6.0        | 8.6  | 4.0  |
| 10       | 8.0        | 10.6 | 6.0  |
| 12       | 10.0       | 12.6 | 8.0  |
| 14       | 12.0       | 14.6 | 10.0 |
| 16       | 14.0       | 16.6 | 12.0 |
| 18       | 16.0       | 18.6 | 14.0 |
| 20       | 18.0       | 20.6 | 16.0 |
| 22       | 20.0       | 22.6 | 18.0 |
| 24       | 22.0       | 24.6 | 20.0 |
| 26       | 24.0       | 26.6 | 22.0 |
| 28       | 26.0       | 28.6 | 24.0 |
| 30       | 28.0       | 30.6 | 26.0 |
| 32       | 30.0       | 32.6 | 28.0 |
| 34       | 32.0       | 34.6 | 30.0 |
| 36       | 34.0       | 36.6 | 32.0 |
| 38       | 36.0       | 38.6 | 34.0 |
| 40       | 38.0       | 40.6 | 36.0 |
| 42       | 40.0       | 42.6 | 38.0 |
| 44       | 42.0       | 44.6 | 40.0 |
| 46       | 44.0       | 46.6 | 42.0 |
| 48       | 46.0       | 48.6 | 44.0 |
| 50       | 48.0       | 50.6 | 46.0 |
| 52       | 50.0       | 52.6 | 48.0 |
| 54       | 52.0       | 54.6 | 50.0 |
| 56       | 54.0       | 56.6 | 52.0 |
| 58       | 56.0       | 58.6 | 54.0 |
| 60       | 58.0       | 60.6 | 56.0 |
| 62       | 60.0       | 62.6 | 58.0 |
| 64       | 62.0       | 64.6 | 60.0 |
| 66       | 64.0       | 66.6 | 62.0 |
| 68       | 66.0       | 68.6 | 64.0 |
| 70       | 68.0       | 70.6 | 66.0 |
| 72       | 70.0       | 72.6 | 68.0 |
| 74       | 72.0       | 74.6 | 70.0 |
| 76       | 74.0       | 76.6 | 72.0 |
| 78       | 76.0       | 78.6 | 74.0 |
| 80       | 78.0       | 80.6 | 76.0 |

|                   |                |                                                                                  |                                                                                                 |                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------|----------------|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number       |                | Product Description                                                              |                                                                                                 |                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                     |
| BF100             |                | 2.00mm Pitch Socket, Dual Row, Surface Mount,                                    |                                                                                                 |                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                     |
| Drawing Date      |                | 4.3mm or 4.6mm Profile, Dual Entry                                               |                                                                                                 |                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                     |
| 31st October 2007 |                |                                                                                  |                                                                                                 |                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                     |
| By                | CC             | Tolerances (Except as Noted)                                                     |                                                                                                 | Units:                                                                                                                           | <div></div> <div></div> <div>This drawing is confidential and copyright of Global Connector Technology, Ltd (GCT). This drawing must not be copied or disclosed without written consent. E &amp; OE</div> |
| Detail            | BF100<br>H PCN | Length<br>X. $\pm 0.30$<br>X.X $\pm 0.25$<br>X.XX $\pm 0.15$<br>X.XXX $\pm 0.10$ | Angle<br>X.° $\pm 5^\circ$<br>X.X° $\pm 3^\circ$<br>X.XX° $\pm 2^\circ$<br>X.XXX° $\pm 1^\circ$ | Metric (mm)                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                     |
| Revision          | H3             |                                                                                  |                                                                                                 | <div></div> <div>3rd Angle Projection</div> |                                                                                                                                                                                                                                                                                                                                                                                     |
| Date              | 15/12/21       |                                                                                  |                                                                                                 |                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                     |
|                   |                |                                                                                  |                                                                                                 |                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                     |



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Sheet No.  
1/1

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