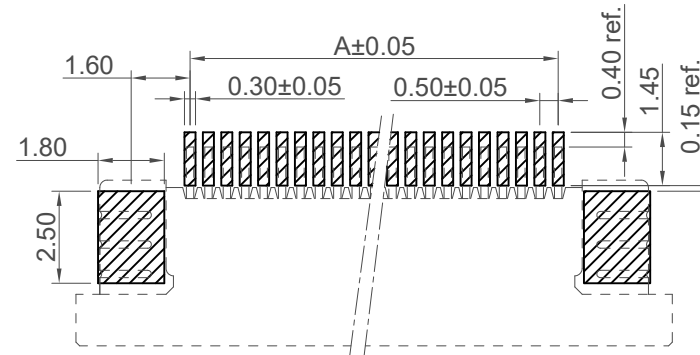
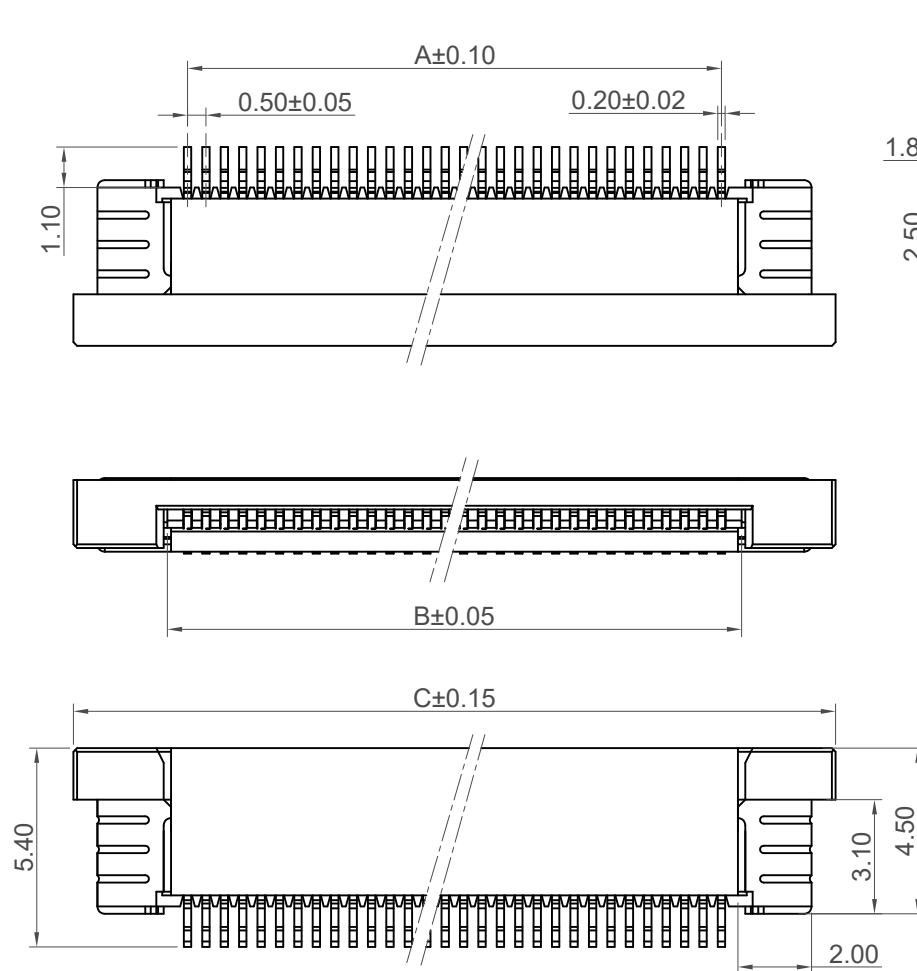


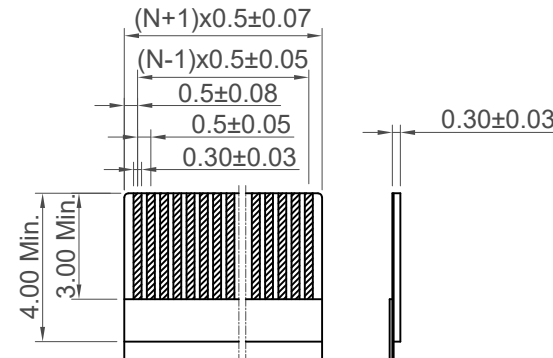
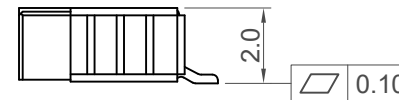
H  
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**Recommended PCB Layout**

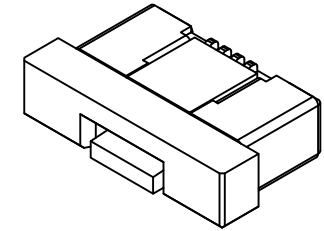
as viewed from component side

▨ Solder Area □ Component Outline



**Recommended FFC/FPC Dimensions**

Thickness  $0.30 \pm 0.03$



**Specification:**

**Material:**

Housing Material: Thermoplastic, UL 94V-0  
 Actuator: Thermoplastic, UL 94V-0  
 Contact: Phosphor Bronze  
 Fitting Nail: Brass

**Plating:**

Contact: see ordering grid  
 Fitting Nail: Matte Tin Plating over Nickel

**Electrical:**

Voltage Rating (Max.): 50V AC/DC  
 Current Rating (Max.): 0.4A AC/DC  
 Dielectric Strength: 250V AC for 1 minute  
 Insulation Resistance: 50 MΩ Min.  
 Contact Resistance: 40 mΩ Max.

**Mechanical & Environmental**

Durability: 20 Cycles  
 Operating Temperature:  $-25^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$   
 Solder Profile:  
 Peak Temp  $260^{\circ}\text{C}$  ( $+0/-5^{\circ}\text{C}$ ) max. (5 seconds)

**Ordering Grid**

**FFC2B21-XX-X** Request Samples and Quotation

No. of Contacts

04 - 40

(see dimension table)

Contact Plating

T = Tin Plating over all (Standard)

G = Gold Flash over all

\* = Tooled Parts

Please contact GCT for non-tooled parts

| No. of Contacts | Dimensions |       |      |
|-----------------|------------|-------|------|
|                 | A          | B     | C    |
| * 4             | 1.50       | 2.60  | 7.7  |
| * 5             | 2.00       | 3.10  | 8.2  |
| * 6             | 2.50       | 3.60  | 8.7  |
| * 7             | 3.00       | 4.10  | 9.2  |
| * 8             | 3.50       | 4.60  | 9.7  |
| * 9             | 4.00       | 5.10  | 10.2 |
| * 10            | 4.50       | 5.60  | 10.7 |
| * 11            | 5.00       | 6.10  | 11.2 |
| * 12            | 5.50       | 6.60  | 11.7 |
| * 13            | 6.00       | 7.10  | 12.2 |
| * 14            | 6.50       | 7.60  | 12.7 |
| * 15            | 7.00       | 8.10  | 13.2 |
| * 16            | 7.50       | 8.60  | 13.7 |
| * 17            | 8.00       | 9.10  | 14.2 |
| * 18            | 8.50       | 9.60  | 14.7 |
| 19              | 9.00       | 10.10 | 15.2 |
| * 20            | 9.50       | 10.60 | 15.7 |
| * 21            | 10.00      | 11.10 | 16.2 |
| * 22            | 10.50      | 11.60 | 16.7 |
| * 23            | 11.00      | 12.10 | 17.2 |
| * 24            | 11.50      | 12.60 | 17.7 |
| * 25            | 12.00      | 13.10 | 18.2 |
| * 26            | 12.50      | 13.60 | 18.7 |
| * 27            | 13.00      | 14.10 | 19.2 |
| * 28            | 13.50      | 14.60 | 19.7 |
| 29              | 14.00      | 15.10 | 20.2 |
| * 30            | 14.50      | 15.60 | 20.7 |
| 31              | 15.00      | 16.06 | 21.7 |
| 32              | 15.50      | 16.56 | 22.2 |
| 33              | 16.00      | 17.06 | 22.7 |
| 34              | 16.50      | 17.56 | 23.2 |
| 35              | 17.00      | 18.06 | 23.7 |
| * 36            | 17.50      | 18.56 | 24.2 |
| 37              | 18.00      | 19.06 | 24.7 |
| 38              | 18.50      | 19.56 | 25.2 |
| 39              | 19.00      | 20.06 | 25.7 |
| * 40            | 19.50      | 20.56 | 26.2 |

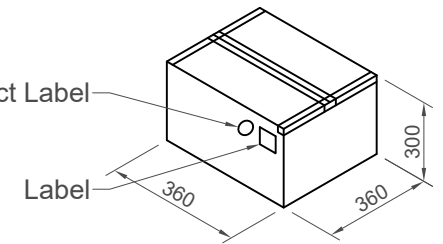
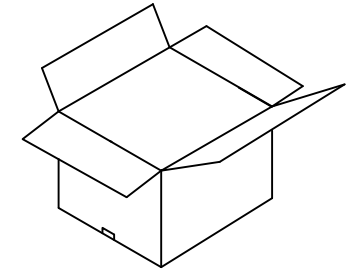
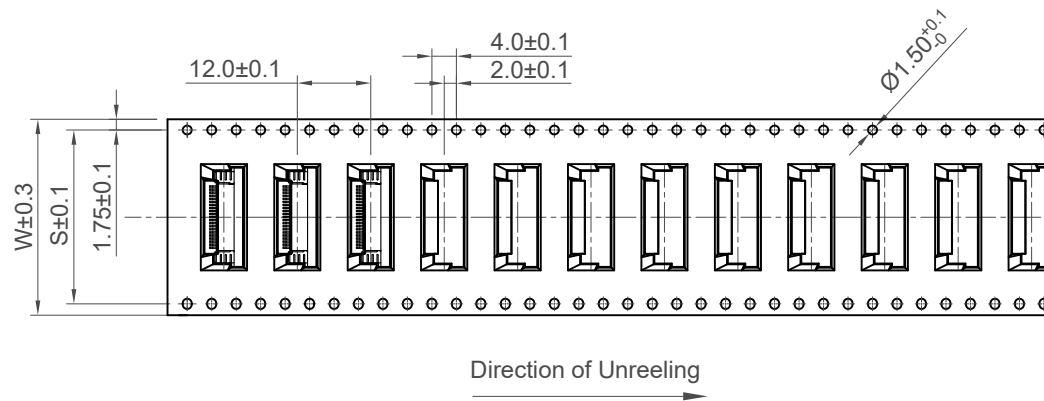
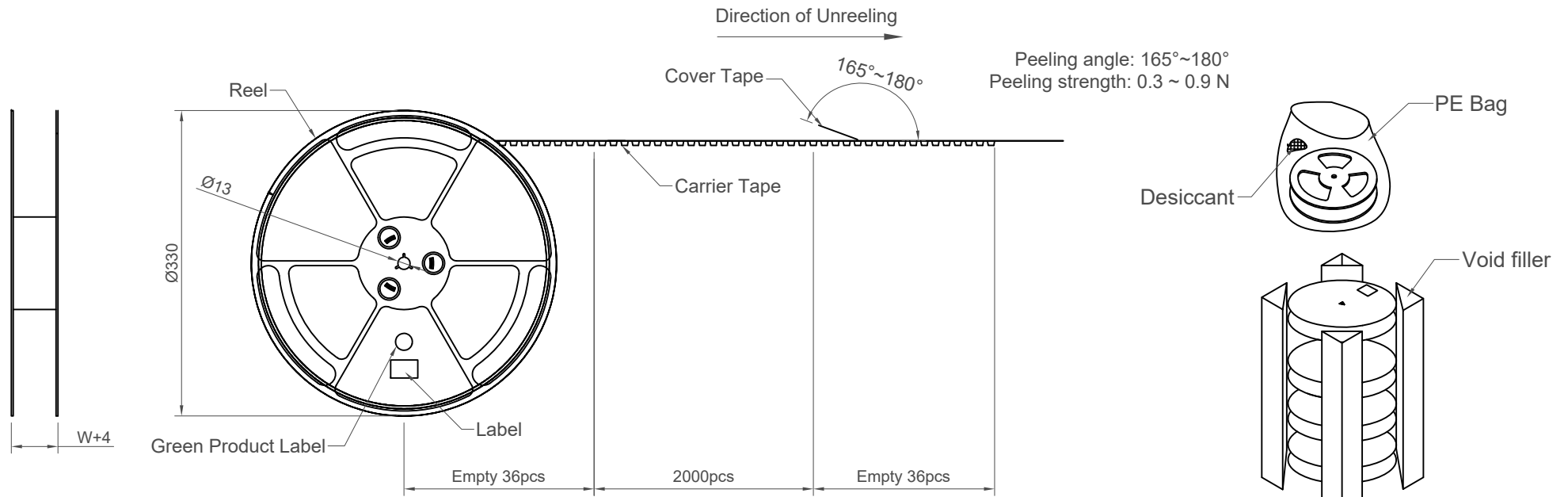
|                   |                 |                                                                           |                 |
|-------------------|-----------------|---------------------------------------------------------------------------|-----------------|
| Part Number       |                 | Product Description                                                       |                 |
| FFC2B21           |                 | FPC 0.5mm Pitch Side Entry, Bottom Contact, SMT, Height=2.0mm, Slide Type |                 |
| Drawing Date      |                 |                                                                           |                 |
| 3rd December 2019 |                 |                                                                           |                 |
| By                | CC              | Tolerances (Except as Noted)                                              | Units:          |
|                   |                 | Length                                                                    | Metric (mm)     |
| Detail            | Drawing Release | Angle                                                                     |                 |
| Revision          | A3              | $X.X \pm 0.15$                                                            | $\pm 1^{\circ}$ |
| Date              | 21/12/23        | $X.XX \pm 0.10$                                                           |                 |



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Not to Scale Drawn By CC Sheet No. 1/2

H  
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E  
D  
C  
B  
A



| No. of Contacts | W  | S    | Pcs/Reel | Reel/Carton | Pcs/Carton |
|-----------------|----|------|----------|-------------|------------|
| 4 ~ 19          | 24 | /    | 2000     | 10          | 20000      |
| 20 ~ 30         | 32 | 28.4 | 2000     | 8           | 16000      |
| 31 ~ 40         | 44 | 40.4 | 2000     | 6           | 12000      |

|              |                 |                                                                           |       |                      |                                                                                                                                                                    |
|--------------|-----------------|---------------------------------------------------------------------------|-------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number  |                 | Product Description                                                       |       |                      |                                                                                                                                                                    |
| FFC2B21      |                 | FPC 0.5mm Pitch Side Entry, Bottom Contact, SMT, Height=2.0mm, Slide Type |       |                      |                                                                                                                                                                    |
| Drawing Date |                 | 3rd December 2019                                                         |       |                      |                                                                                                                                                                    |
| By           | CC              | Tolerances (Except as Noted)                                              |       | Units:               |                                                                                                                                                                    |
| Detail       | Drawing Release | Length                                                                    | Angle | Metric (mm)          |                                                                                                                                                                    |
| Revision     | A3              | -                                                                         | -     | -                    |                                                                                                                                                                    |
| Date         | 21/12/23        | -                                                                         |       | 3rd Angle Projection | This drawing is confidential and copyright of Global Connector Technology, Ltd (GCT). This drawing must not be copied or disclosed without written consent. E & OE |
|              |                 |                                                                           |       |                      |                                                                                                                                                                    |
|              |                 |                                                                           |       |                      | Not to Scale<br>Drawn By CC<br>Sheet No. 2/2                                                                                                                       |

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