

| REV. | ECN NO. | LOCATIONS | DESCRIPTION            | DATE     | DESIGN |
|------|---------|-----------|------------------------|----------|--------|
| A2   |         |           | Update pin number list | 06/18'24 | Kim    |

ORDERING INFORMATION

FBY0509-XX (XXR)

① ② ③

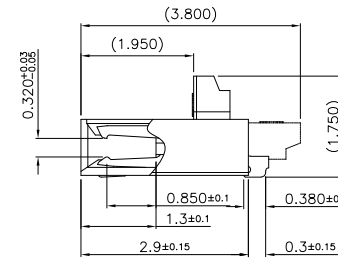
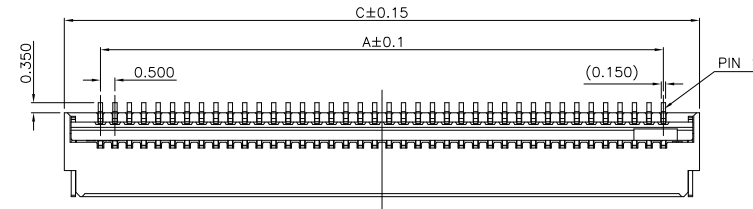
① PRODUCT SERIES:  
ZIF FPC/FFC 0.5Pitch 1.0H  
CONNECTOR BACK-Flip  
SMT TYPE.

② NUMBER OF CONTACTS:  
04 TO 40.

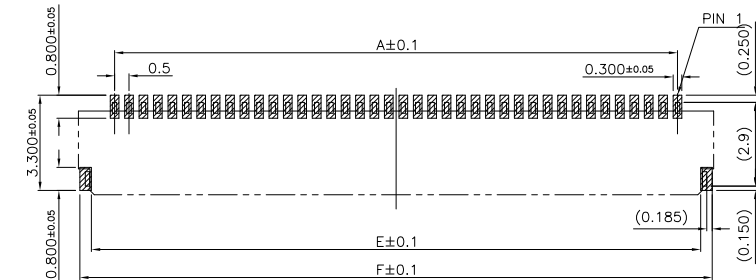
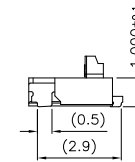
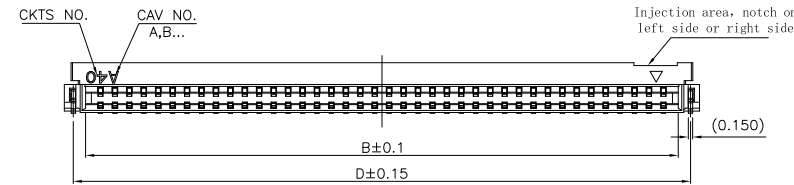
CUSTOMER DRAWING

RoHS Compliant

③ PLATING:  
21: GOLD PLATING.

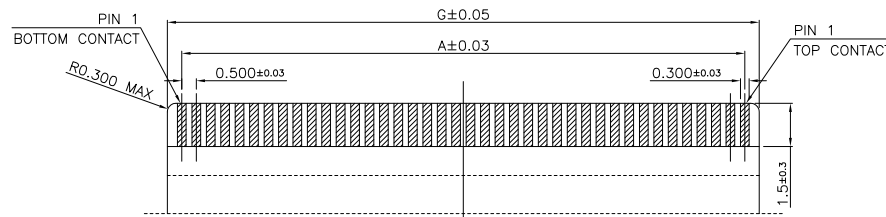


SCALE 2:1



RECOMMEND PCB LAYOUT

Tolerance: ±0.05



Recommended FFC/FPC Dimensions

| PIN NO | DIM A | DIM B | DIM C | DIM D | DIM E | DIM F | DIM G |
|--------|-------|-------|-------|-------|-------|-------|-------|
| 04     | 1.50  | 2.57  | 4.00  | 3.38  | 3.10  | 3.90  | 2.50  |
| 05     | 2.00  | 3.07  | 4.50  | 3.88  | 3.60  | 4.40  | 3.00  |
| 06     | 2.50  | 3.57  | 5.00  | 4.38  | 4.10  | 4.90  | 3.50  |
| 07     | 3.00  | 4.07  | 5.50  | 4.88  | 4.60  | 5.40  | 4.00  |
| 08     | 3.50  | 4.57  | 6.00  | 5.38  | 5.10  | 5.90  | 4.50  |
| 09     | 4.00  | 5.07  | 6.50  | 5.88  | 5.60  | 6.40  | 5.00  |
| 10     | 4.50  | 5.57  | 7.00  | 6.38  | 6.10  | 6.90  | 5.50  |
| 11     | 5.00  | 6.07  | 7.50  | 6.88  | 6.60  | 7.40  | 6.00  |
| 12     | 5.50  | 6.57  | 8.00  | 7.38  | 7.10  | 7.90  | 6.50  |
| 13     | 6.00  | 7.07  | 8.50  | 7.88  | 7.60  | 8.40  | 7.00  |
| 14     | 6.50  | 7.57  | 9.00  | 8.38  | 8.10  | 8.90  | 7.50  |
| 15     | 7.00  | 8.07  | 9.50  | 8.88  | 8.60  | 9.40  | 8.00  |
| 16     | 7.50  | 8.57  | 10.00 | 9.38  | 9.10  | 9.90  | 8.50  |
| 17     | 8.00  | 9.07  | 10.50 | 9.88  | 9.60  | 10.40 | 9.00  |
| 18     | 8.50  | 9.57  | 11.00 | 10.38 | 10.10 | 10.90 | 9.50  |
| 19     | 9.00  | 10.07 | 11.50 | 10.88 | 10.60 | 11.40 | 10.00 |
| 20     | 9.50  | 10.57 | 12.00 | 11.38 | 11.10 | 11.90 | 10.50 |
| 21     | 10.00 | 11.07 | 12.50 | 11.88 | 11.60 | 12.40 | 11.00 |
| 22     | 10.50 | 11.57 | 13.00 | 12.38 | 12.10 | 12.90 | 11.50 |

| PIN NO | DIM A | DIM B | DIM C | DIM D | DIM E | DIM F | DIM G |
|--------|-------|-------|-------|-------|-------|-------|-------|
| 23     | 11.00 | 12.07 | 13.50 | 12.88 | 12.60 | 13.40 | 12.00 |
| 24     | 11.50 | 12.57 | 14.00 | 13.38 | 13.10 | 13.90 | 12.50 |
| 25     | 12.00 | 13.07 | 14.50 | 13.88 | 13.60 | 14.40 | 13.00 |
| 26     | 12.50 | 13.57 | 15.00 | 14.38 | 14.10 | 14.90 | 13.50 |
| 27     | 13.00 | 14.07 | 15.50 | 14.88 | 14.60 | 15.40 | 14.00 |
| 28     | 13.50 | 14.57 | 16.00 | 15.38 | 15.10 | 15.90 | 14.50 |
| 29     | 14.00 | 15.07 | 16.50 | 15.88 | 15.60 | 16.40 | 15.00 |
| 30     | 14.50 | 15.57 | 17.00 | 16.38 | 16.10 | 16.90 | 15.50 |
| 31     | 15.00 | 16.07 | 17.50 | 16.88 | 16.60 | 17.40 | 16.00 |
| 32     | 15.50 | 16.57 | 18.00 | 17.38 | 17.10 | 17.90 | 16.50 |
| 33     | 16.00 | 17.07 | 18.50 | 17.88 | 17.60 | 18.40 | 17.00 |
| 34     | 16.50 | 17.57 | 19.00 | 18.38 | 18.10 | 18.90 | 17.50 |
| 35     | 17.00 | 18.07 | 19.50 | 18.88 | 18.60 | 19.40 | 18.00 |
| 36     | 17.50 | 18.57 | 20.00 | 19.38 | 19.10 | 19.90 | 18.50 |
| 37     | 18.00 | 19.07 | 20.50 | 19.88 | 19.60 | 20.40 | 19.00 |
| 38     | 18.50 | 19.57 | 21.00 | 20.38 | 20.10 | 20.90 | 19.50 |
| 39     | 19.00 | 20.07 | 21.50 | 20.88 | 20.60 | 21.40 | 20.00 |
| 40     | 19.50 | 20.57 | 22.00 | 21.38 | 21.10 | 21.90 | 20.50 |

| DIM   | TOL   |
|-------|-------|
| X     | ±0.25 |
| X.X   | ±0.20 |
| X.XX  | ±0.10 |
| X.XXX | ±0.05 |

Note:

1.Material

1.1: Housing: High Temp, UL94V-0, Nature Color.

1.2: Actuator: High Temp, UL94V-0, Black Color.

1.3: Contact: Copper Alloy.

1.4: Fit: Copper Alloy.

2.Plating

2.1: Contact: G/F plated on contact area over Nickel under-plated overall.

2.2: Fit: Tin over Nickel under-plated overall.

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|          |             |          |                      |                                                     |
|----------|-------------|----------|----------------------|-----------------------------------------------------|
| DRAW NO. | FBY0509(A2) | DATE     | MATERIAL: SEE NOTES  | DRAW NAME:                                          |
| DESIGN:  | Kim         | 06/18'24 | FINISH: SEE NOTES    | ZIF FPC/FFC CONN - 0.5Pitch 1.0H Back-Flip SMT TYPE |
| CHECK:   | Kim         | 06/18'24 | FILE: FBY0509(A2)    | MODEL: 0.5FPC CONN                                  |
| REVIEW:  | Jim         | 06/18'24 | P/N: FBY0509-XX(XXR) | UNIT: mm SHEET: 1/1                                 |
| APPROVED | Jim         | 06/18'24 | REV. A2 SCALE        |                                                     |