

| REV | LOCATIONS | DESCRIPTION                                                      | DATE      | REVISER | APPD   |
|-----|-----------|------------------------------------------------------------------|-----------|---------|--------|
| 1   |           | Part No. Change:FR-050FSS-DXX-HXX<br>To FBB05002-FXXS1XX3XXM-HXX | 29/OCT/13 | JACOB   | CHERRY |
| 2   |           | Structure Change                                                 | 26/DEC/18 | CHERRY  | KATE   |
| 3   |           | Add packaging specification                                      | 05/DEC/19 | KATE    | CHERRY |

#### Electrical

Current Rating:0.5A AC(rms)/DC

Voltage Rating: 50V AC(rms)/DC

Contact Resistance: 40 m  $\Omega$  Max

Insulation Resistance:100 M  $\Omega$  MIN

Withstanding Voltage:250V AC r.m.s

Temperature Range-Operating: -25°C~+85°C

#### Material and Plating

Housing:LCP( UL 94V-0)

Contact Pin:Phosphor Bronze

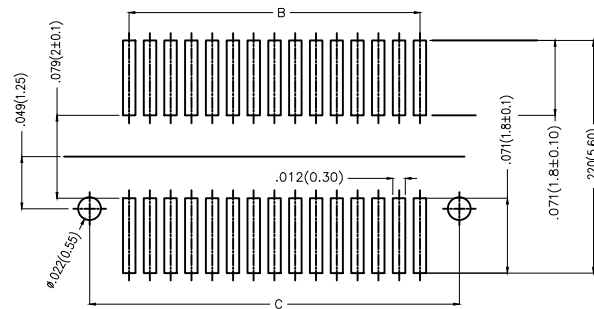
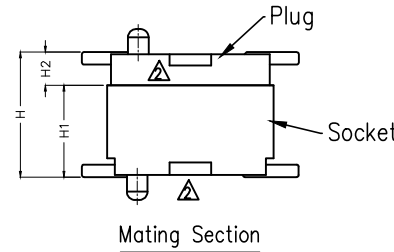
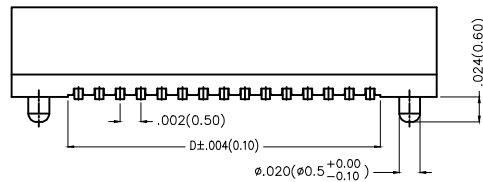
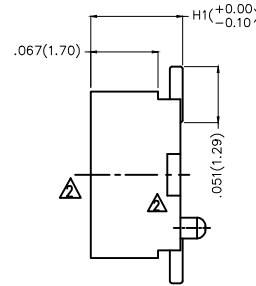
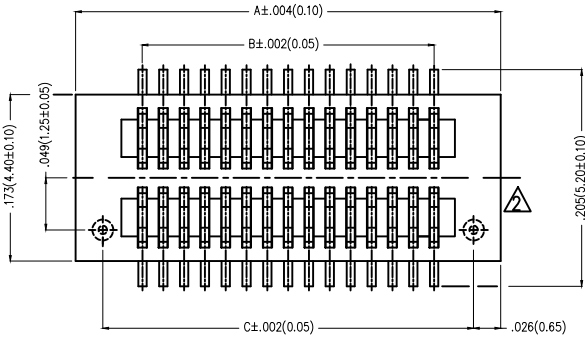
Plating:Gold Plated

| Height H(in/mm) | Female H1(in/mm)     | Male H2(in/mm)       |
|-----------------|----------------------|----------------------|
| .118(3.00)      | .087(2.20)           | .031(0.80)           |
| .138(3.50)      | .087(2.20)           | .051(1.30)           |
| .157(4.00)      | .118(3.00)           | .039(1.00)           |
| .177(4.50)      | .138(3.50)           | .039(1.00)           |
| .197(5.00)      | .157(4.00).118(3.00) | .039(1.00).079(2.00) |
| .217(5.50)      | .177(4.50)           | .039(1.00)           |
| .236(6.00)      | .157(4.00)           | .079(2.00)           |
| .256(6.50)      | .177(4.50)           | .079(2.00)           |

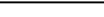
#### Ordering Information

FBB 050 02 — F XX S 1 XX 3 XX M HXX  
1 2 3 4 5 6 7 8 9 10 11 12

|                                    |                                                           |                             |                                          |                          |                                                       |
|------------------------------------|-----------------------------------------------------------|-----------------------------|------------------------------------------|--------------------------|-------------------------------------------------------|
| 1   Category<br>FBB-Board To Board | 2   Series Number<br>050-Pitch0.5mm                       | 3   Distinction No.<br>02   | 4   Type<br>F-Female                     | 5   Circuits<br>XX       | 6   Entry Angle<br>S-180° Vertical                    |
| 7   Plating<br>1-Gold Plated       | 8   Thickness of Plating<br>00-Gold Flash<br>03-3 $\mu$ " | 9   Material-Resin<br>3-LCP | 10   Color-Resin<br>K6-Black<br>W5-White | 11   Packaging<br>M-Reel | 12   Female Height<br>H22-2.2mm<br>H30-3.0mm<br>..... |



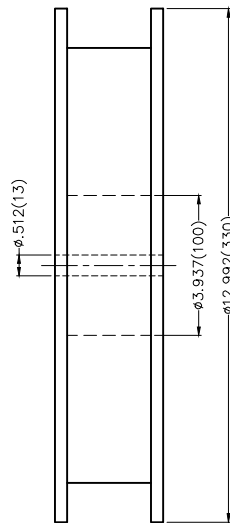
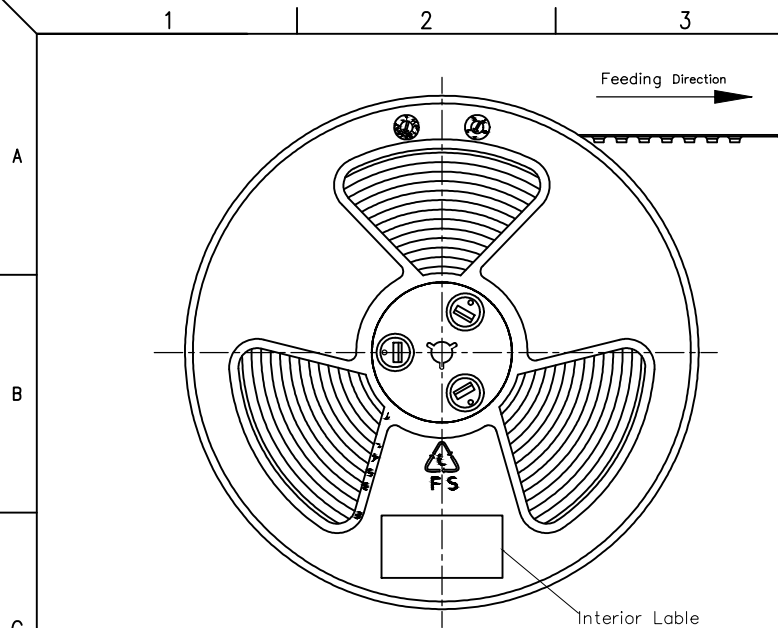
Recommended P.C.Board Layout

|                                                                                                                   |            |                                          |            |                      |                    |                                                                                                                                                    |                       |                                                                                                             |  |
|-------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------|------------|----------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------|--|
| <br>THIRD ANGLE<br>PROJECTION |            | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |            | APPROVE BY<br>FRANK  | DATE<br>26/SEPT/13 | PART NO.<br>FBB05002-FXXS1XX3XXMHXX                                                                                                                | TEM NO.<br>FBB05002-F | <br>Leader Of Industry |  |
| DESIGN UNITS<br>Inch (metric)                                                                                     |            | X.±.012(0.30)                            | X'.±5'     | CHECKED BY<br>CHERRY | DATE<br>26/SEPT/13 | TITLE<br>Board to Board<br>Pitch 0.5mm 180° Vertical (SMT)                                                                                         |                       |                                                                                                             |  |
|                                                                                                                   |            | X.X±.008(0.20)                           | X'.±2'     | DRAWN BY<br>JACOB    | DATE<br>26/SEPT/13 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                       |                                                                                                             |  |
|                                                                                                                   |            | X.XX±.006(0.15)                          | .XX'±1'    |                      |                    |                                                                                                                                                    |                       |                                                                                                             |  |
| SCALE<br>5:1                                                                                                      | SIZE<br>A4 | X.XXX±.004(0.10)                         | .XXX'±0.5' |                      |                    | REV 3      SHEET NO. 1/3                                                                                                                           |                       |                                                                                                             |  |

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| Circuits<br>(n) | Part No.  | Dimensions(in/mm) |            |            |            | Circuits<br>(n) | Part No.  | Dimensions(in/mm) |             |              |             |
|-----------------|--------------------------------------------------------------------------------------------|-------------------|------------|------------|------------|-----------------|----------------------------------------------------------------------------------------------|-------------------|-------------|--------------|-------------|
|                 |                                                                                            | A                 | B          | C          | D          |                 |                                                                                              | A                 | B           | C            | D           |
| 8               | FBB05002-F08S1XX3XXMHXX                                                                    | .185(4.70)        | .059(1.50) | .134(3.40) | .079(2.00) | 34              | FBB05002-F34S1XX3XXMHXX                                                                      | .441(11.20)       | .315(8.00)  | .390(9.90)   | .335(8.50)  |
| 10              | FBB05002-F10S1XX3XXMHXX                                                                    | .205(5.20)        | .079(2.00) | .154(3.90) | .098(2.50) | 36              | FBB05002-F36S1XX3XXMHXX                                                                      | .461(11.70)       | .335(8.50)  | .409(10.40)  | .354(9.00)  |
| 12              | FBB05002-F12S1XX3XXMHXX                                                                    | .224(5.70)        | .098(2.50) | .173(4.40) | .118(3.00) | 38              | FBB05002-F38S1XX3XXMHXX                                                                      | .480(12.20)       | .354(9.00)  | .429(10.90)  | .374(9.50)  |
| 14              | FBB05002-F14S1XX3XXMHXX                                                                    | .244(6.20)        | .118(3.00) | .193(4.90) | .138(3.50) | 40              | FBB05002-F40S1XX3XXMHXX                                                                      | .500(12.70)       | .374(9.50)  | .449(11.40)  | .394(10.00) |
| 16              | FBB05002-F16S1XX3XXMHXX                                                                    | .264(6.70)        | .138(3.50) | .213(5.40) | .157(4.00) | 42              | FBB05002-F42S1XX3XXMHXX                                                                      | .520(13.20)       | .394(10.00) | .469(11.90)  | .413(10.50) |
| 18              | FBB05002-F18S1XX3XXMHXX                                                                    | .283(7.20)        | .157(4.00) | .232(5.90) | .177(4.50) | 44              | FBB05002-F44S1XX3XXMHXX                                                                      | .539(13.70)       | .413(10.50) | .488(12.40)  | .433(11.00) |
| 20              | FBB05002-F20S1XX3XXMHXX                                                                    | .303(7.70)        | .177(4.50) | .252(6.40) | .197(5.00) | 46              | FBB05002-F46S1XX3XXMHXX                                                                      | .559(14.20)       | .433(11.00) | .508(12.90)  | .453(11.50) |
| 22              | FBB05002-F22S1XX3XXMHXX                                                                    | .323(8.20)        | .197(5.00) | .272(6.90) | .217(5.50) | 50              | FBB05002-F50S1XX3XXMHXX                                                                      | .598(15.20)       | .472(12.00) | .547(13.90)  | .492(12.50) |
| 24              | FBB05002-F24S1XX3XXMHXX                                                                    | .343(8.70)        | .217(5.50) | .291(7.40) | .236(6.00) | 60              | FBB05002-F60S1XX3XXMHXX                                                                      | .697(17.70)       | .571(14.50) | .646(16.40)  | .591(15.00) |
| 26              | FBB05002-F26S1XX3XXMHXX                                                                    | .362(9.20)        | .236(6.00) | .311(7.90) | .256(6.50) | 70              | FBB05002-F70S1XX3XXMHXX                                                                      | .795(20.20)       | .669(17.00) | .744(18.90)  | .689(17.50) |
| 28              | FBB05002-F28S1XX3XXMHXX                                                                    | .382(9.70)        | .256(6.50) | .331(8.40) | .276(7.00) | 80              | FBB05002-F80S1XX3XXMHXX                                                                      | .894(22.70)       | .768(19.50) | .843(21.40)  | .787(20.00) |
| 30              | FBB05002-F30S1XX3XXMHXX                                                                    | .402(10.20)       | .276(7.00) | .350(8.90) | .295(7.50) | 90              | FBB05002-F90S1XX3XXMHXX                                                                      | .992(25.20)       | .866(22.00) | .941(23.90)  | .886(22.50) |
| 32              | FBB05002-F32S1XX3XXMHXX                                                                    | .421(10.70)       | .295(7.50) | .370(9.40) | .315(8.00) | 100             | FBB05002-F100S1XX3XXMHXX                                                                     | 1.091(27.70)      | .965(24.50) | 1.039(26.40) | .984(25.00) |

|                                                                                                                   |            |                                          |           |                     |                    |                                                                                                                                                    |                       |                                                                                                             |  |       |               |
|-------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------|-----------|---------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------|--|-------|---------------|
| <br>THIRD ANGLE<br>PROJECTION |            | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |           | APPROVE BY<br>FRANK | DATE<br>26/SEPT/13 | PART NO.<br>FBB05002-FXXS1XX3XXMHXX                                                                                                                | TEM NO.<br>FBB05002-F | <br>Leader Of Industry |  |       |               |
|                                                                                                                   |            | X.±.012(0.30)                            | X.±5'     | CHECKED BY          | DATE               | TITLE                                                                                                                                              |                       |                                                                                                             |  |       |               |
| DESIGN UNITS<br>Inch (metric)                                                                                     |            | X.X±.008(0.20)                           | X.±2'     | CHERRY              | 26/SEPT/13         | Board to Board<br>Pitch 0.5mm 180° Vertical (SMT)                                                                                                  |                       |                                                                                                             |  | REV 3 | SHEET NO. 2/3 |
| SCALE<br>5:1                                                                                                      | SIZE<br>A4 | X.XX±.006(0.15)                          | .XX±1"    | DRAWN BY<br>JACOB   | DATE<br>26/SEPT/13 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                       |                                                                                                             |  |       |               |
|                                                                                                                   |            | X.XXX±.004(0.10)                         | .XXX±0.5' |                     |                    |                                                                                                                                                    |                       |                                                                                                             |  |       |               |

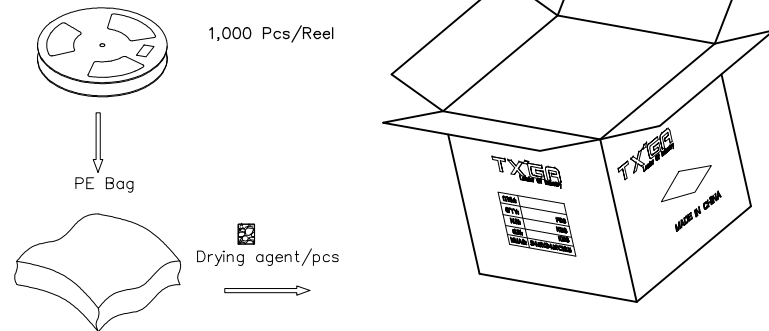
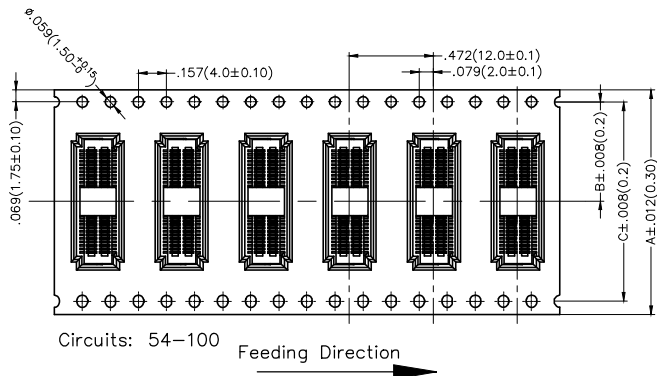
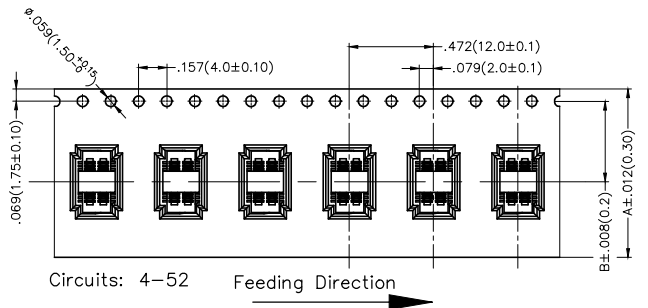
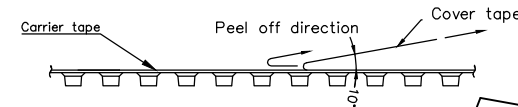
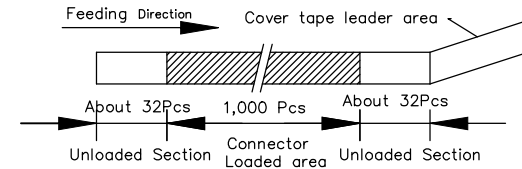


| REV | LOCATIONS | DESCRIPTION | DATE | REVISER | APPD |
|-----|-----------|-------------|------|---------|------|
|     |           |             |      |         |      |

Note:

1. 10 sprocket hole cumulative tolerance  $\pm 0.2$
2. Carrier camber is within 1.0mm in 100mm
3. Material: Black Conductive polystyrene Alloy 100% recyclable
4. All dimensions meet EIA-481-B requirements
5. Peel off force of cover tape & carrier tape: 20g~130g(0.2N~1.3N)
6. Component load per 13" reel: 1,000 pcs

| Circuits<br>(n) | Dimensions(in/mm) |             |              |
|-----------------|-------------------|-------------|--------------|
|                 | A                 | B           | C            |
| 4~20            | .630(16.0)        | .295(7.50)  | —            |
| 22~52           | .945(24.0)        | .453(11.50) | —            |
| 54~70           | 1.260(32.0)       | .561(14.25) | 1.122(28.50) |
| 72~100          | 1.732(44.0)       | .797(20.25) | 1.594(40.50) |



|                                                                                                                   |                                          |                        |                     |                   |                                                   |                                                                                                                                                    |                                                                                                             |               |
|-------------------------------------------------------------------------------------------------------------------|------------------------------------------|------------------------|---------------------|-------------------|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------|
| <br>THIRD ANGLE<br>PROJECTION | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |                        | APPROVE BY<br>FRANK | DATE<br>05/DEC/19 | PART NO.<br>FBB05002-FXXS1XX3XXMHXX               | ITEM NO.<br>FBB05002-F                                                                                                                             | <br>Leader Of Industry |               |
|                                                                                                                   | X $\pm$ .012(0.30)                       | X $\pm$ 5°             | CHECKED BY          | DATE              | TITLE                                             |                                                                                                                                                    |                                                                                                             |               |
| DESIGN UNITS<br>Inch (metric)                                                                                     | X.X $\pm$ .008(0.20)                     | .X $\pm$ 2°            | CHERRY              | 05/DEC/19         | Board to Board<br>Pitch 0.5mm 180° Vertical (SMT) |                                                                                                                                                    | REV 3                                                                                                       | SHEET NO. 3/3 |
| SCALE<br>5:1                                                                                                      | SIZE<br>A4                               | X.XX $\pm$ .006(0.15)  | .XX $\pm$ 1°        | DRAWN BY<br>KATE  | DATE<br>05/DEC/19                                 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                                                                                                             |               |
|                                                                                                                   |                                          | X.XXX $\pm$ .004(0.10) | .XXX $\pm$ 0.5°     |                   |                                                   |                                                                                                                                                    |                                                                                                             |               |

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