

| REV | LOCATIONS | DESCRIPTION | DATE | REVISER | APPD |
|-----|-----------|--|-----------|---------|--------|
| 1 | △ | Part No. Change:FR-050FSS-DXX-HXX 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 |

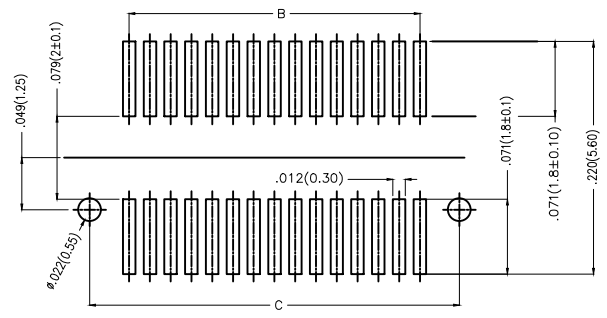
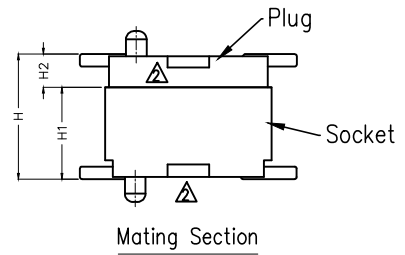
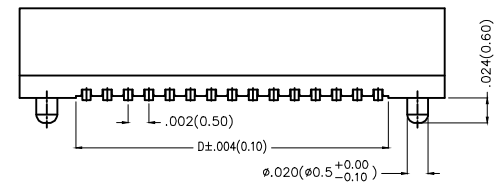
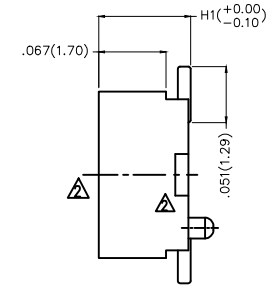
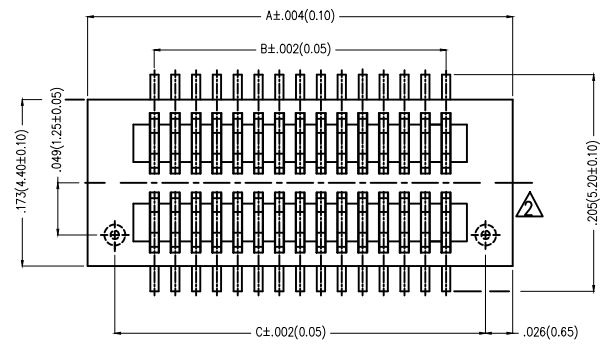
Electrical

Current Rating: 0.5A AC(rms)/DC
Voltage Rating: 50V AC(rms)/DC
Contact Resistance: 40 mΩ Max
Insulation Resistance: 100 MΩ 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) |
| .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) |




Recommended P.C.Board Layout

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

| THIRD ANGLE PROJECTION | GENERAL TOLERANCES (UNLESS SPECIFIED) | | APPROVE BY | DATE | PART NO. | TEM NO. |  Leader Of Industry |
|------------------------|---------------------------------------|---------------|----------------------|--------------------|--|-------------------------|---|
| | DESIGN UNITS Inch (metric) | X.±.012(0.30) | .X'±5' | FRANK | 26/SEPT/13 | FBB05002-FXXS1XX3XXMHXX | |
| SCALE 5:1 | X.X±.008(0.20) | .X'±2' | CHECKED BY CHERRY | DATE 26/SEPT/13 | TITLE Board to Board Pitch 0.5mm 180° Vertical (SMT) | | REV 3 |
| SIZE A4 | X.XX±.006(0.15) | .XX'±1' | DRAWN BY JACOB | DATE 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 | | SHEET NO. 1/3 |
| | X.XXX±.004(0.10) | .XXX'±0.5' | | | | | |

1 2 3 4 5 6 7 8

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

A

A

B

B

C

C

D



D



E

E

F

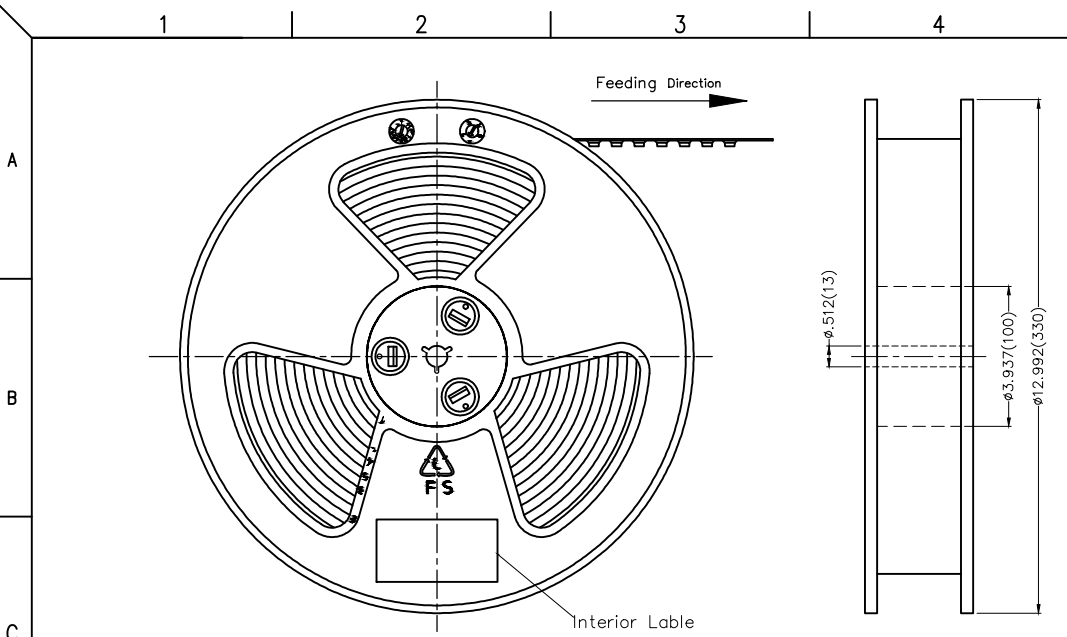
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| Circuits (n) | Part No.  | Dimensions(in/mm) | | | | Circuits (n) | Part No.  | Dimensions(in/mm) | | | |
|-----------------|--|-------------------|------------|------------|------------|-----------------|--|-------------------|-------------|--------------|-------------|
| | | 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) |

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|---|--|------------------|----------------------|--------------------|--|--|---|
|  THIRD ANGLE PROJECTION | GENERAL TOLERANCES (UNLESS SPECIFIED) | | APPROVE BY FRANK | DATE 26/SEPT/13 | PART NO. FBB05002-FXXS1XX3XXMHXX | TEM NO. FBB05002-F |  Leader Of Industry |
| | X.±.012(0.30) | X.±5' | CHECKED BY CHERRY | DATE 26/SEPT/13 | TITLE Board to Board Pitch 0.5mm 180° Vertical (SMT) | REV 3 | |
| | DESIGN UNITS Inch (metric) | X.X±.008(0.20) | X.±2' | DRAWN BY JACOB | DATE 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 | |
| SCALE 5:1 | SIZE A4 | X.XX±.006(0.15) | X.X±1' | | | | |
| | | X.XXX±.004(0.10) | .XXX±0.5' | | | | |

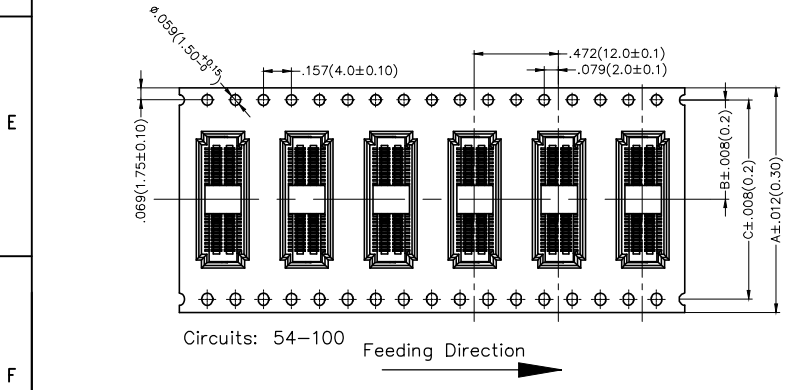
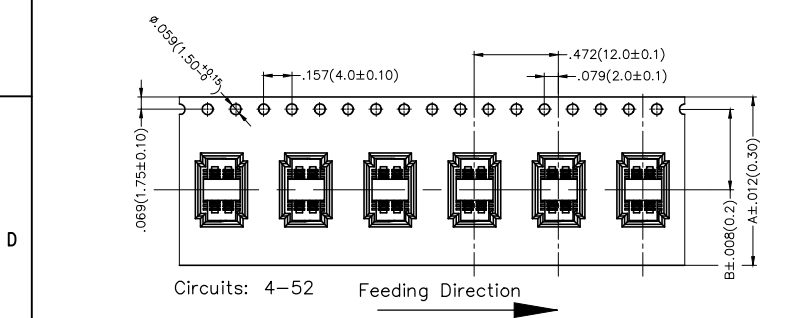
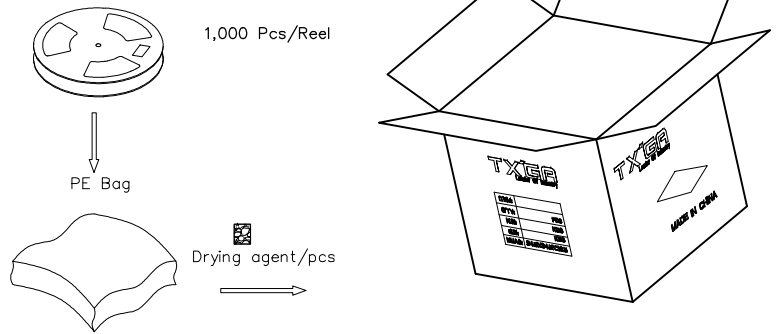
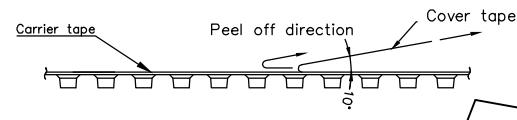
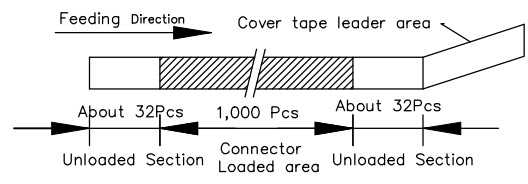
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- Note:
- 10 sprocket hole cumulative tolerance ± 0.2
 - Carrier camber is within 1.0mm in 100mm
 - Material: Black Conductive polystyrene Alloy 100% recyclable
 - All dimensions meet EIA-481-B requirements
 - Peel off force of cover tape & carrier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

| Circuits (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) |



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|-----------------------------------|---------------------------------------|------------------|----------------------|-------------------|--|--|---------------------------------------|---------------|
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| | DESIGN UNITS Inch (metric) | X.X±.008(0.20) | X.'±2' | DRAWN BY KATE | DATE 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 | | SHEET NO. 3/3 |
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