

| REV | LOCATIONS | DESCRIPTION | DATE | REVISER | APPD |
|-----|-----------|-------------|-----------|---------|--------|
| 1 | △ | | 12/JUN/17 | JACOB | CHERRY |

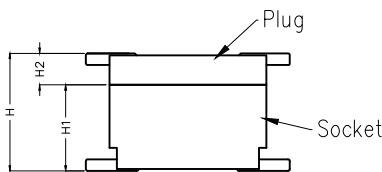
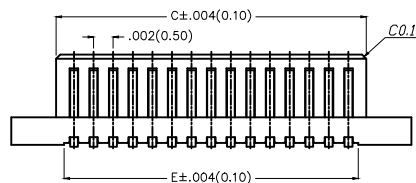
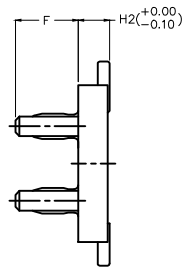
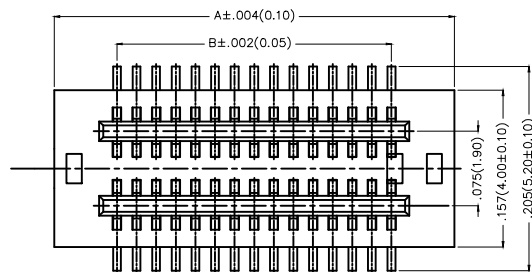
Electrical

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

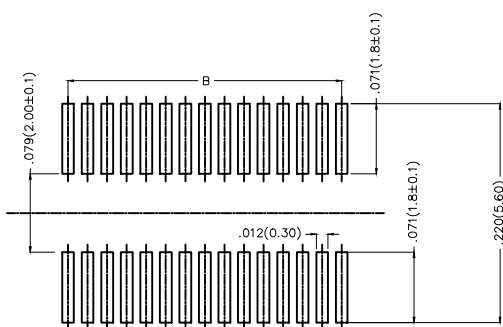
Material and Plating

Housing: LCP(UL 94V-0)
Contact Pin: Phosphor Bronze
Plating: Gold Plated

| Height H(in/mm) | Female H1(in/mm) | Male H2(in/mm) | F(in/mm) |
|-----------------|------------------|----------------|------------|
| .118(3.00) | .087(2.20) | .031(0.80) | .063(1.60) |
| .138(3.50) | .087(2.20) | .051(1.30) | .063(1.60) |
| .157(4.00) | .118(3.00) | .039(1.00) | .075(1.90) |
| .177(4.50) | .138(3.50) | .039(1.00) | .075(1.90) |
| .197(5.00) | .157(4.00) | .039(1.00) | .075(1.90) |
| .217(5.50) | .177(4.50) | .039(1.00) | .075(1.90) |
| .236(6.00) | .157(4.00) | .079(2.00) | .075(1.90) |
| .256(6.50) | .177(4.50) | .079(2.00) | .075(1.90) |



Mating Section




Recommended P.C.Board Layout

Ordering Information



FBB 050 03 — M 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. 03 | 4 Type M—Male | 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 Male Height H08—0.8mm H13—1.3mm |

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|------------------------|---------------------------------------|----------------------------|----------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------|
| THIRD ANGLE PROJECTION | GENERAL TOLERANCES (UNLESS SPECIFIED) | | APPROVE BY FRANK | DATE 26/SEPT/13 | PART NO. FBB05003-MXXS1XX3XXMHXX | TEM NO. FBB05003-M |  Leader Of Industry |
| | DESIGN UNITS Inch (metric) | X.±.012(0.30) X.±5' | CHECKED BY CHERRY | DATE 26/SEPT/13 | TITLE Board to Board Pitch 0.5mm 180° Vertical (SMT) | | |
| SCALE 5:1 | 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 | | |
| | | X.XXX±.004(0.10) .XXX±0.5' | | | | | |

| | | | | | |
|-----|-----------|-------------|------|---------|------|
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| Circuits (n) | Part No. | Dimensions(in./mm) | | | | | Circuits (n) | Part No. | Dimensions(in./mm) | | | | |
|-----------------|-------------------------|--------------------|------------|------------|------------|------------|-----------------|--------------------------|--------------------|-------------|--------------|--------------|-------------|
| | | A | B | C | D | E | | | A | B | C | D | E |
| 10 | FBB05003-M10S1XX3XXMHXX | .205(5.20) | .079(2.00) | .114(2.90) | .154(3.90) | .098(2.50) | 36 | FBB05003-M36S1XX3XXMHXX | .461(11.70) | .335(8.50) | .370(9.40) | .409(10.40) | .354(9.00) |
| 12 | FBB05003-M12S1XX3XXMHXX | .224(5.70) | .098(2.50) | .134(3.40) | .173(4.40) | .118(3.00) | 38 | FBB05003-M38S1XX3XXMHXX | .480(12.20) | .354(9.00) | .390(9.90) | .429(10.90) | .374(9.50) |
| 14 | FBB05003-M14S1XX3XXMHXX | .244(6.20) | .118(3.00) | .154(3.90) | .193(4.90) | .138(3.50) | 40 | FBB05003-M40S1XX3XXMHXX | .500(12.70) | .374(9.50) | .409(10.40) | .449(11.40) | .394(10.00) |
| 16 | FBB05003-M16S1XX3XXMHXX | .264(6.70) | .138(3.50) | .173(4.40) | .213(5.40) | .157(4.00) | 42 | FBB05003-M42S1XX3XXMHXX | .520(13.20) | .394(10.00) | .429(10.90) | .469(11.90) | .413(10.50) |
| 18 | FBB05003-M18S1XX3XXMHXX | .283(7.20) | .157(4.00) | .193(4.90) | .232(5.90) | .177(4.50) | 44 | FBB05003-M44S1XX3XXMHXX | .539(13.70) | .413(10.50) | .449(11.40) | .488(12.40) | .433(11.00) |
| 20 | FBB05003-M20S1XX3XXMHXX | .303(7.70) | .177(4.50) | .213(5.40) | .252(6.40) | .197(5.00) | 46 | FBB05003-M46S1XX3XXMHXX | .559(14.20) | .433(11.00) | .469(11.90) | .508(12.90) | .453(11.50) |
| 22 | FBB05003-M22S1XX3XXMHXX | .323(8.20) | .197(5.00) | .232(5.90) | .272(6.90) | .217(5.50) | 48 | FBB05003-M48S1XX3XXMHXX | .579(14.70) | .453(11.50) | .488(12.40) | .528(13.40) | .472(12.00) |
| 24 | FBB05003-M24S1XX3XXMHXX | .343(8.70) | .217(5.50) | .252(6.40) | .291(7.40) | .236(6.00) | 50 | FBB05003-M50S1XX3XXMHXX | .598(15.20) | .472(12.00) | .508(12.90) | .547(13.90) | .492(12.50) |
| 26 | FBB05003-M26S1XX3XXMHXX | .362(9.20) | .236(6.00) | .272(6.90) | .311(7.90) | .256(6.50) | 60 | FBB05003-M60S1XX3XXMHXX | .697(17.70) | .571(14.50) | .610(15.50) | .646(16.40) | .591(15.00) |
| 28 | FBB05003-M28S1XX3XXMHXX | .382(9.70) | .256(6.50) | .291(7.40) | .331(8.40) | .276(7.00) | 70 | FBB05003-M70S1XX3XXMHXX | .795(20.20) | .669(17.00) | .709(18.00) | .744(18.90) | .689(17.50) |
| 30 | FBB05003-M30S1XX3XXMHXX | .402(10.20) | .276(7.00) | .311(7.90) | .350(8.90) | .295(7.50) | 80 | FBB05003-M80S1XX3XXMHXX | .894(22.70) | .768(19.50) | .807(20.50) | .843(21.40) | .787(20.00) |
| 32 | FBB05003-M32S1XX3XXMHXX | .421(10.70) | .295(7.50) | .331(8.40) | .370(9.40) | .315(8.00) | 90 | FBB05003-M90S1XX3XXMHXX | .992(25.20) | .866(22.00) | .906(23.00) | .941(23.90) | .886(22.50) |
| 34 | FBB05003-M34S1XX3XXMHXX | .441(11.20) | .315(8.00) | .350(8.90) | .390(9.90) | .335(8.50) | 100 | FBB05003-M100S1XX3XXMHXX | 1.091(27.70) | .965(24.50) | 1.004(25.50) | 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. FBB05003-MXXS1XX3XXMHXX | TEM NO. FBB05003-M |  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 1 | |
| 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.XXX±.004(0.10) | | | | | |