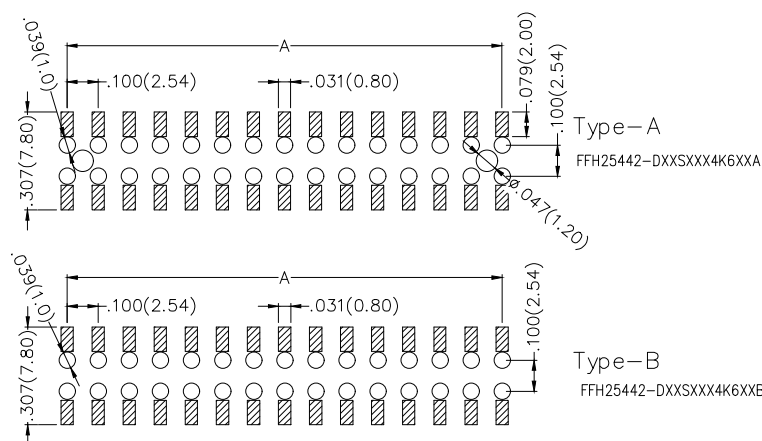
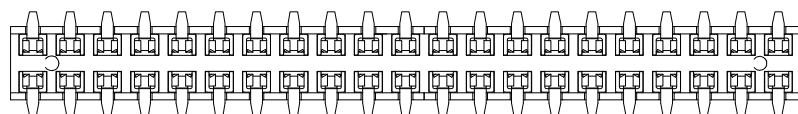
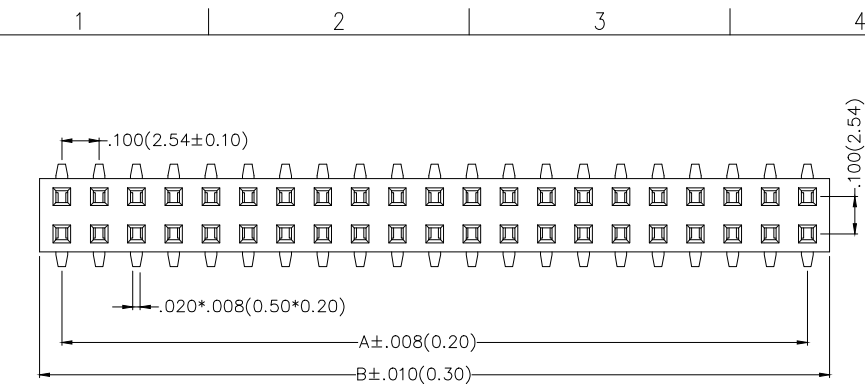




Recommended P.C. Board Layout

## Electrical

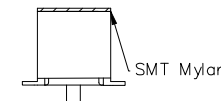
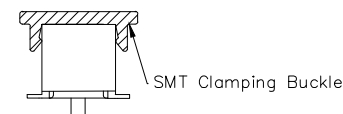
Current Rating: 3A AC(rms)/DC  
Voltage Rating: 250V AC(rms)/DC  
Contact Resistance: 20 mΩ Max  
Insulation Resistance: 1000 MΩ MIN  
Withstanding Voltage: 500V AC r.m.s  
Temperature Range—Operating: -40°C~+85°C

## Material and Plating

Housing: PA6T( UL 94V-0)  
Contact Pin: Brass  
Plating: Gold Plated/Selective gold on contact area,  
tin on tail

Packing: M—Reel(With Cap)

Packing: M1—Reel(With Mylar)

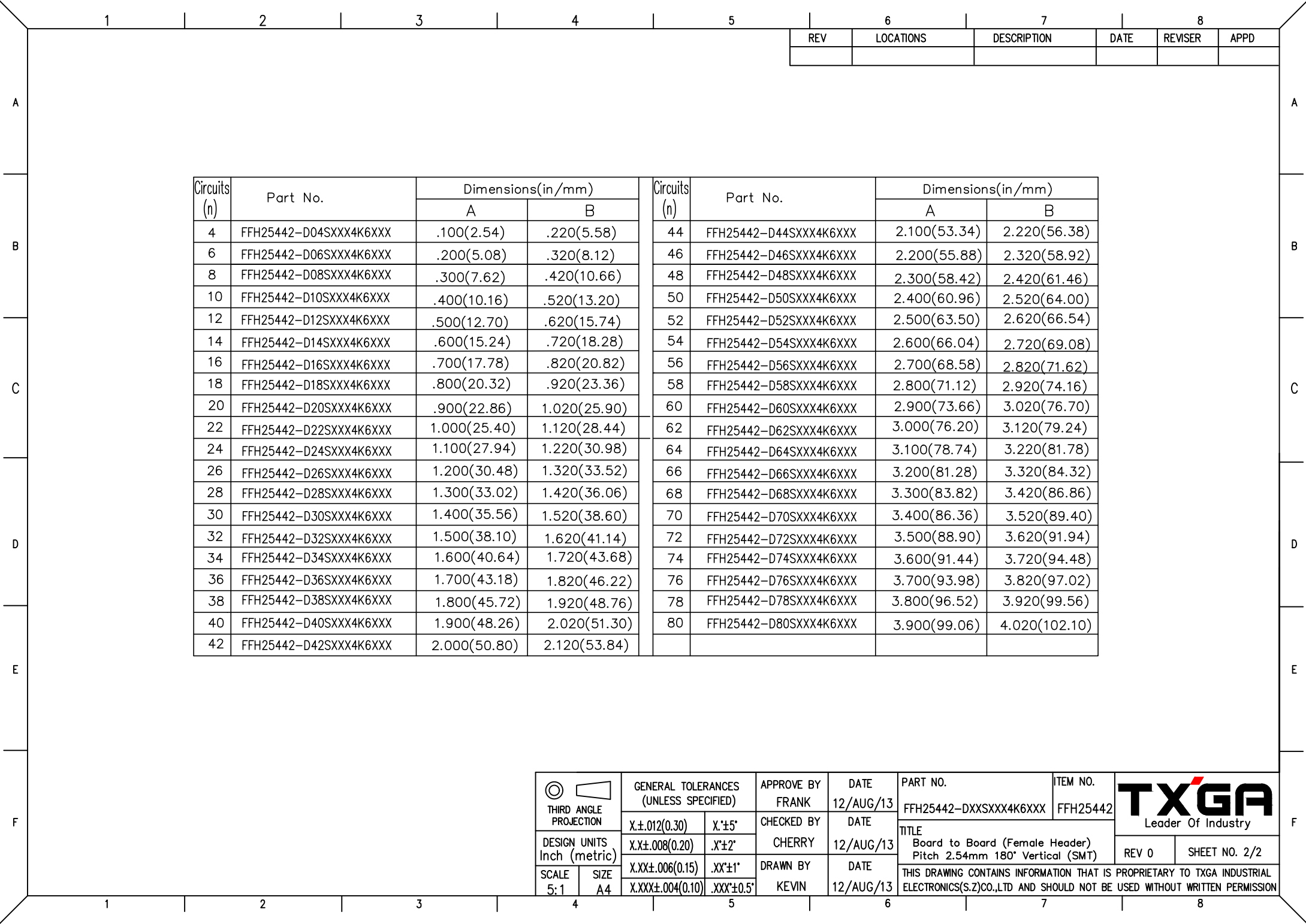


## Ordering Information

FFH 254 42 — D XX S X XX 4 K6 XX X  
1 2 3 4 5 6 7 8 9 10 11 12

|   |                                                                                 |   |                                                                           |   |                          |    |                            |    |                                                                  |    |                                           |
|---|---------------------------------------------------------------------------------|---|---------------------------------------------------------------------------|---|--------------------------|----|----------------------------|----|------------------------------------------------------------------|----|-------------------------------------------|
| 1 | Category<br>FFH—Female Header                                                   | 2 | Series Number<br>254—Pitch 2.54mm                                         | 3 | Distinction No.<br>42    | 4  | Row Option<br>D—Double Row | 5  | Circuits<br>XX                                                   | 6  | Entry Angle<br>S—180° Vertical            |
| 7 | Plating<br>1—Gold Plated<br>3—Selective gold<br>on contact area,<br>tin on tail | 8 | Thickness of Plating<br>00—Gold Flash<br>05—5μ"<br>Custom plate available | 9 | Material—Resin<br>4—PA6T | 10 | Color—Resin<br>K6—Black    | 11 | Packaging<br>M—Reel(With Cap)<br>M1—Reel(With Mylar)<br>B—PE Bag | 12 | Type<br>A—With Position<br>B—W/O Position |

|                                                                                                                   |            |                                          |          |                     |                   |                                                                                                                                                       |                      |                                                                                                             |               |
|-------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------|----------|---------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------|---------------|
| <br>THIRD ANGLE<br>PROJECTION |            | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |          | APPROVE BY<br>FRANK | DATE<br>12/AUG/13 | PART NO.<br>FFH25442-DXXSXXX4K6XXX                                                                                                                    | ITEM NO.<br>FFH25442 | <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              | 12/AUG/13         | Board to Board (Female Header)<br>Pitch 2.54mm 180° Vertical (SMT)                                                                                    |                      | REV 0                                                                                                       | SHEET NO. 1/2 |
|                                                                                                                   |            | X.XX±.006(0.15)                          | .XX±1°   | DRAWN BY            | DATE              | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL<br>ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                      |                                                                                                             |               |
| SCALE<br>5:1                                                                                                      | SIZE<br>A4 | X.XXX±.004(0.10)                         | XXX±0.5° | KEVIN               | 12/AUG/13         |                                                                                                                                                       |                      |                                                                                                             |               |



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

| Circuits<br>(n) | Part No.               | Dimensions(in/mm) |              | Circuits<br>(n) | Part No.               | Dimensions(in/mm) |               |
|-----------------|------------------------|-------------------|--------------|-----------------|------------------------|-------------------|---------------|
|                 |                        | A                 | B            |                 |                        | A                 | B             |
| 4               | FFH25442-D04SXXX4K6XXX | .100(2.54)        | .220(5.58)   | 44              | FFH25442-D44SXXX4K6XXX | 2.100(53.34)      | 2.220(56.38)  |
| 6               | FFH25442-D06SXXX4K6XXX | .200(5.08)        | .320(8.12)   | 46              | FFH25442-D46SXXX4K6XXX | 2.200(55.88)      | 2.320(58.92)  |
| 8               | FFH25442-D08SXXX4K6XXX | .300(7.62)        | .420(10.66)  | 48              | FFH25442-D48SXXX4K6XXX | 2.300(58.42)      | 2.420(61.46)  |
| 10              | FFH25442-D10SXXX4K6XXX | .400(10.16)       | .520(13.20)  | 50              | FFH25442-D50SXXX4K6XXX | 2.400(60.96)      | 2.520(64.00)  |
| 12              | FFH25442-D12SXXX4K6XXX | .500(12.70)       | .620(15.74)  | 52              | FFH25442-D52SXXX4K6XXX | 2.500(63.50)      | 2.620(66.54)  |
| 14              | FFH25442-D14SXXX4K6XXX | .600(15.24)       | .720(18.28)  | 54              | FFH25442-D54SXXX4K6XXX | 2.600(66.04)      | 2.720(69.08)  |
| 16              | FFH25442-D16SXXX4K6XXX | .700(17.78)       | .820(20.82)  | 56              | FFH25442-D56SXXX4K6XXX | 2.700(68.58)      | 2.820(71.62)  |
| 18              | FFH25442-D18SXXX4K6XXX | .800(20.32)       | .920(23.36)  | 58              | FFH25442-D58SXXX4K6XXX | 2.800(71.12)      | 2.920(74.16)  |
| 20              | FFH25442-D20SXXX4K6XXX | .900(22.86)       | 1.020(25.90) | 60              | FFH25442-D60SXXX4K6XXX | 2.900(73.66)      | 3.020(76.70)  |
| 22              | FFH25442-D22SXXX4K6XXX | 1.000(25.40)      | 1.120(28.44) | 62              | FFH25442-D62SXXX4K6XXX | 3.000(76.20)      | 3.120(79.24)  |
| 24              | FFH25442-D24SXXX4K6XXX | 1.100(27.94)      | 1.220(30.98) | 64              | FFH25442-D64SXXX4K6XXX | 3.100(78.74)      | 3.220(81.78)  |
| 26              | FFH25442-D26SXXX4K6XXX | 1.200(30.48)      | 1.320(33.52) | 66              | FFH25442-D66SXXX4K6XXX | 3.200(81.28)      | 3.320(84.32)  |
| 28              | FFH25442-D28SXXX4K6XXX | 1.300(33.02)      | 1.420(36.06) | 68              | FFH25442-D68SXXX4K6XXX | 3.300(83.82)      | 3.420(86.86)  |
| 30              | FFH25442-D30SXXX4K6XXX | 1.400(35.56)      | 1.520(38.60) | 70              | FFH25442-D70SXXX4K6XXX | 3.400(86.36)      | 3.520(89.40)  |
| 32              | FFH25442-D32SXXX4K6XXX | 1.500(38.10)      | 1.620(41.14) | 72              | FFH25442-D72SXXX4K6XXX | 3.500(88.90)      | 3.620(91.94)  |
| 34              | FFH25442-D34SXXX4K6XXX | 1.600(40.64)      | 1.720(43.68) | 74              | FFH25442-D74SXXX4K6XXX | 3.600(91.44)      | 3.720(94.48)  |
| 36              | FFH25442-D36SXXX4K6XXX | 1.700(43.18)      | 1.820(46.22) | 76              | FFH25442-D76SXXX4K6XXX | 3.700(93.98)      | 3.820(97.02)  |
| 38              | FFH25442-D38SXXX4K6XXX | 1.800(45.72)      | 1.920(48.76) | 78              | FFH25442-D78SXXX4K6XXX | 3.800(96.52)      | 3.920(99.56)  |
| 40              | FFH25442-D40SXXX4K6XXX | 1.900(48.26)      | 2.020(51.30) | 80              | FFH25442-D80SXXX4K6XXX | 3.900(99.06)      | 4.020(102.10) |
| 42              | FFH25442-D42SXXX4K6XXX | 2.000(50.80)      | 2.120(53.84) |                 |                        |                   |               |

|                                                                                                                   |            |                                          |           |                          |                   |                                                                                                                                                       |                      |                                                                                                             |  |
|-------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------|-----------|--------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------|--|
| <br>THIRD ANGLE<br>PROJECTION |            | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |           | APPROVE BY<br>FRANK      | DATE<br>12/AUG/13 | PART NO.<br>FFH25442-DXXSXXX4K6XXX                                                                                                                    | ITEM NO.<br>FFH25442 | <br>Leader Of Industry |  |
|                                                                                                                   |            | X.±.012(0.30)                            | .X'±5°    | CHECKED BY<br>CHERRY     | DATE<br>12/AUG/13 | TITLE<br>Board to Board (Female Header)<br>Pitch 2.54mm 180° Vertical (SMT)                                                                           |                      |                                                                                                             |  |
| DESIGN UNITS<br>Inch (metric)                                                                                     |            | X.X±.008(0.20)                           | .X'±2°    | DRAWN BY<br>KEVIN        | DATE<br>12/AUG/13 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL<br>ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                      |                                                                                                             |  |
| SCALE<br>5:1                                                                                                      | SIZE<br>A4 | X.XX±.006(0.15)                          | .XX'±1°   |                          |                   |                                                                                                                                                       |                      |                                                                                                             |  |
|                                                                                                                   |            | X.XXX±.004(0.10)                         | .XXX±0.5° | REV 0      SHEET NO. 2/2 |                   |                                                                                                                                                       |                      |                                                                                                             |  |