

| REV | LOCATIONS | DESCRIPTION  | DATE      | REVISER | APPD   |
|-----|-----------|--------------|-----------|---------|--------|
| 1   |           | Size change  | 01/SEP/20 | KATE    | CHERRY |
| 2   |           | Size changes | 26/AUG/21 | KATE    | CHERRY |

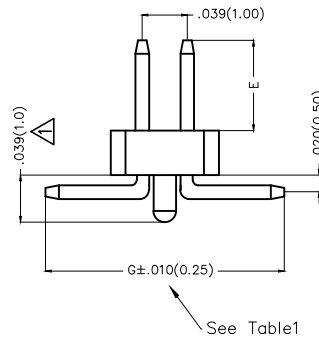
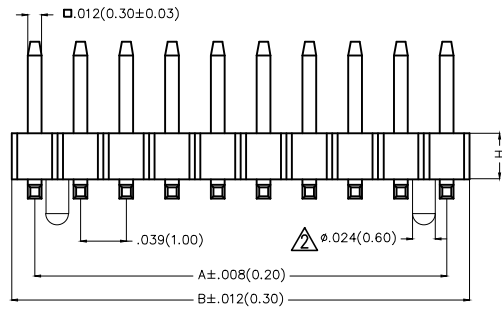
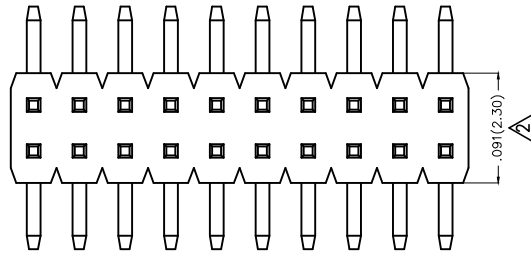
**SPECIFICATIONS**

**Electrical**

Current Rating: 1.0A AC(rms)/DC  
Voltage Rating: 250V AC(rms)/DC  
Contact Resistance: 20 mΩ Max  
Insulation Resistance: 1000 MΩ Min  
Withstanding Voltage: 300V AC r.m.s  
Temperature Range—Operating: -40°C~+105°C

**Material**

Housing: Glass Filled Polyester (UL 94V-0), Color: Black  
Pin: Brass  
Pin Plating: Gold plated/ Selective gold plated on contact area and 120μ" Min. matte tin plated on tails area

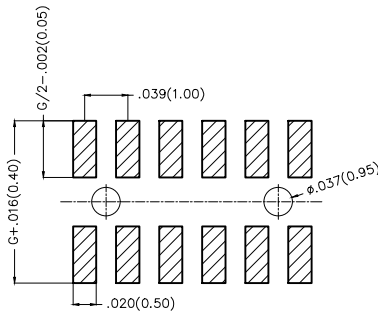


See Table1

**Ordering Information**

FPH 100 33 - D XX S X XX 4 XX XX X 0 M  
1 2 3 4 5 6 7 8 9 10 11 12 13

|  |   |  |  |  |   |   |
|--|---|--|--|--|---|---|
| 1 <b>Category</b><br>FPH—Pin Header  | 2 <b>Series Number</b><br>100—Pitch1.00mm | 3 <b>Distinction No.</b><br>33                             | 4 <b>Row Option</b><br>D—Double Row                        | 5 <b>Circuits</b><br>XX                                  | 6 <b>Entry Angle</b><br>S—180° Vertical | 7 <b>Plating</b><br>1—Gold plated<br>7—Selective gold plated on contact area and matte tin plated on tails area |
| 8 <b>Thickness of Plating</b><br>01—1μ"<br>15—15μ"<br>Custom plate available | 9 <b>Material—Resin</b><br>4—PA6T         | 10 <b>E Size</b><br>01,02...—Serial number<br>(See Table1) | 11 <b>G Size</b><br>01,02...—Serial number<br>(See Table1) | 12 <b>H Size</b><br>1,2...—Serial number<br>(See Table1) | 13 <b>Packaging</b><br>M—Reel           |   |



Recommended P.C.Board Layout

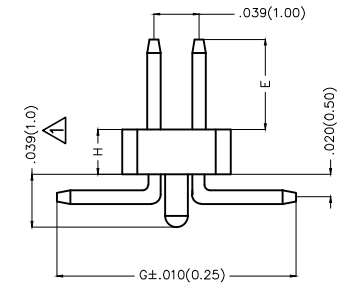
|              |                                       |  |   |                      |  |  |  |       |
|--------------|---------------------------------------|--|---|----------------------|--|--|--|-------|
|              | GENERAL TOLERANCES (UNLESS SPECIFIED) |  | APPROVE BY<br>FRANK                       | DATE<br>26/DEC/19    | PART NO.<br>FPH10033-DXXSXXX4XXXXX0M   | ITEM NO.<br>FPH10033   |  |       |
|              | DESIGN UNITS<br>Inch (metric)         | X.±.012(0.30)<br>X.X±.008(0.20)<br>X.XX±.006(0.15)<br>X.XXX±.004(0.10) | .X'±5"<br>.X'±2"<br>.XX'±1"<br>.XXX'±0.5' | CHECKED BY<br>CHERRY | DATE<br>26/DEC/19  | TITLE<br>Board to Board(Pin Header)<br>Pitch 1.00mm 180° Vertical(SMT) |  | REV 2 |
| SCALE<br>5:1 | SIZE<br>A4                            |  | DRAWN BY<br>ZOEY                          | DATE<br>26/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 |  |  |       |

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

Table1

| Serial number | Dimensions(in/mm) |  | Serial number | Dimensions(in/mm) |  |
|---------------|-------------------|--|---------------|-------------------|--|
|               | E                 |  |               | E                 |  |
| 01            | .059(1.50)        |  | 19            | .236(6.00)        |  |
| 02            | .069(1.75)        |  | 20            | .246(6.25)        |  |
| 03            | .079(2.00)        |  | 21            | .256(6.50)        |  |
| 04            | .089(2.25)        |  | 22            | .266(6.75)        |  |
| 05            | .098(2.50)        |  | 23            | .276(7.00)        |  |
| 06            | .108(2.75)        |  | 24            | .285(7.25)        |  |
| 07            | .118(3.00)        |  | 25            | .295(7.50)        |  |
| 08            | .128(3.25)        |  | 26            | .305(7.75)        |  |
| 09            | .138(3.50)        |  | 27            | .315(8.00)        |  |
| 10            | .148(3.75)        |  | 28            | .325(8.25)        |  |
| 11            | .157(4.00)        |  | 29            | .335(8.50)        |  |
| 12            | .167(4.25)        |  | 30            | .344(8.75)        |  |
| 13            | .177(4.50)        |  | 31            | .354(9.00)        |  |
| 14            | .187(4.75)        |  | 32            | .364(9.25)        |  |
| 15            | .197(5.00)        |  | 33            | .374(9.50)        |  |
| 16            | .207(5.25)        |  | 34            | .384(9.75)        |  |
| 17            | .217(5.50)        |  | 35            | .394(10.00)       |  |
| 18            | .226(5.75)        |  |               |                   |  |

| Serial number | Dimensions(in/mm) |  | Note               |
|---------------|-------------------|--|--------------------|
|               | G                 |  |                    |
| 01            | .138(3.50)        |  | Only 6~10 Circuits |
| 02            | .148(3.75)        |  |                    |
| 03            | .157(4.00)        |  |                    |
| 04            | .167(4.25)        |  |                    |
| 05            | .177(4.50)        |  |                    |
| 06            | .187(4.75)        |  |                    |
| 07            | .197(5.00)        |  |                    |
| 08            | .207(5.25)        |  |                    |
| 09            | .217(5.50)        |  |                    |
| 10            | .226(5.75)        |  |                    |
| 11            | .236(6.00)        |  |                    |
| 12            | .246(6.25)        |  |                    |
| 13            | .256(6.50)        |  |                    |



| Serial number | Dimensions(in/mm) |
|---------------|-------------------|
| H             |                   |
| 1             | .039(1.00)        |
| 2             | .059(1.50)        |

|                            |                                       |               |                     |                      |                                      |  |  |       |
|----------------------------|---------------------------------------|---------------|---------------------|----------------------|--------------------------------------|--|--|-------|
| <br>THIRD ANGLE PROJECTION | GENERAL TOLERANCES (UNLESS SPECIFIED) |               | APPROVE BY<br>FRANK | DATE<br>26/DEC/19    | PART NO.<br>FPH10033-DXXSXXX4XXXXX0M | ITEM NO.<br>FPH10033   | <br>Leader Of Industry   |       |
|                            | DESIGN UNITS<br>Inch (metric)         | X.±.012(0.30) | X.'±5'              | CHECKED BY<br>CHERRY | DATE<br>26/DEC/19                    | TITLE<br>Board to Board(Pin Header)<br>Pitch 1.00mm 180° Vertical(SMT) |  | REV 2 |
|                            | SCALE<br>5:1                          | SIZE<br>A4    | X.XX±.006(0.15)     | .XX'±1'              | DRAWN BY<br>ZOEY                     | DATE<br>26/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 |       |

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

F

| Circuits<br>(n) | Part No.                 | Dimensions(in/mm) |             | Circuits<br>(n) | Part No.                 | Dimensions(in/mm) |              |
|-----------------|--------------------------|-------------------|-------------|-----------------|--------------------------|-------------------|--------------|
|                 |                          | A                 | B           |                 |                          | A                 | B            |
| 6               | FPH10033-D06SXXX4XXXXX0M | .079(2.00)        | .118(3.00)  | 44              | FPH10033-D44SXXX4XXXXX0M | .827(21.00)       | .866(22.00)  |
| 8               | FPH10033-D08SXXX4XXXXX0M | .118(3.00)        | .157(4.00)  | 46              | FPH10033-D46SXXX4XXXXX0M | .866(22.00)       | .906(23.00)  |
| 10              | FPH10033-D10SXXX4XXXXX0M | .157(4.00)        | .197(5.00)  | 48              | FPH10033-D48SXXX4XXXXX0M | .906(23.00)       | .945(24.00)  |
| 12              | FPH10033-D12SXXX4XXXXX0M | .197(5.00)        | .236(6.00)  | 50              | FPH10033-D50SXXX4XXXXX0M | .945(24.00)       | .984(25.00)  |
| 14              | FPH10033-D14SXXX4XXXXX0M | .236(6.00)        | .276(7.00)  | 52              | FPH10033-D52SXXX4XXXXX0M | .984(25.00)       | 1.024(26.00) |
| 16              | FPH10033-D16SXXX4XXXXX0M | .276(7.00)        | .315(8.00)  | 54              | FPH10033-D54SXXX4XXXXX0M | 1.024(26.00)      | 1.063(27.00) |
| 18              | FPH10033-D18SXXX4XXXXX0M | .315(8.00)        | .354(9.00)  | 56              | FPH10033-D56SXXX4XXXXX0M | 1.063(27.00)      | 1.102(28.00) |
| 20              | FPH10033-D20SXXX4XXXXX0M | .354(9.00)        | .394(10.00) | 58              | FPH10033-D58SXXX4XXXXX0M | 1.102(28.00)      | 1.142(29.00) |
| 22              | FPH10033-D22SXXX4XXXXX0M | .394(10.00)       | .443(11.00) | 60              | FPH10033-D60SXXX4XXXXX0M | 1.142(29.00)      | 1.181(30.00) |
| 24              | FPH10033-D24SXXX4XXXXX0M | .443(11.00)       | .472(12.00) | 62              | FPH10033-D62SXXX4XXXXX0M | 1.181(30.00)      | 1.220(31.00) |
| 26              | FPH10033-D26SXXX4XXXXX0M | .472(12.00)       | .512(13.00) | 64              | FPH10033-D64SXXX4XXXXX0M | 1.220(31.00)      | 1.260(32.00) |
| 28              | FPH10033-D28SXXX4XXXXX0M | .512(13.00)       | .551(14.00) | 66              | FPH10033-D66SXXX4XXXXX0M | 1.260(32.00)      | 1.130(33.00) |
| 30              | FPH10033-D30SXXX4XXXXX0M | .551(14.00)       | .591(15.00) | 68              | FPH10033-D68SXXX4XXXXX0M | 1.130(33.00)      | 1.339(34.00) |
| 32              | FPH10033-D32SXXX4XXXXX0M | .591(15.00)       | .630(16.00) | 70              | FPH10033-D70SXXX4XXXXX0M | 1.339(34.00)      | 1.379(35.00) |
| 34              | FPH10033-D34SXXX4XXXXX0M | .630(16.00)       | .669(17.00) | 72              | FPH10033-D72SXXX4XXXXX0M | 1.379(35.00)      | 1.417(36.00) |
| 36              | FPH10033-D36SXXX4XXXXX0M | .669(17.00)       | .709(18.00) | 74              | FPH10033-D74SXXX4XXXXX0M | 1.417(36.00)      | 1.457(37.00) |
| 38              | FPH10033-D38SXXX4XXXXX0M | .709(18.00)       | .748(19.00) | 76              | FPH10033-D76SXXX4XXXXX0M | 1.457(37.00)      | 1.497(38.00) |
| 40              | FPH10033-D40SXXX4XXXXX0M | .748(19.00)       | .787(20.00) | 78              | FPH10033-D78SXXX4XXXXX0M | 1.497(38.00)      | 1.535(39.00) |
| 42              | FPH10033-D42SXXX4XXXXX0M | .787(20.00)       | .827(21.00) | 80              | FPH10033-D80SXXX4XXXXX0M | 1.535(39.00)      | 1.575(40.00) |

|   |  |  |  |                      |   |  |   |       |
|---|--|--|--|----------------------|---|--|---|-------|
| <br>THIRD ANGLE<br>PROJECTION | GENERAL TOLERANCES<br>(UNLESS SPECIFIED) |  | APPROVE BY<br>FRANK                      | DATE<br>26/DEC/19    | PART NO.<br>FPH10033-DXXSXXX4XXXXX0M  | ITEM NO.<br>FPH10033   | <br>Leader Of Industry |       |
|   | DESIGN UNITS<br>Inch (metric)            | X.±.012(0.30)<br>X.X±.008(0.20)<br>X.XX±.006(0.15)<br>X.XXX±.004(0.10) | X.±5'<br>.X'±2'<br>.XX'±1'<br>.XXX'±0.5' | CHECKED BY<br>CHERRY | DATE<br>26/DEC/19   | TITLE<br>Board to Board(Pin Header)<br>Pitch 1.00mm 180° Vertical(SMT) |   | REV 2 |
| SCALE<br>5:1  | SIZE<br>A4                               | DRAWN BY<br>ZOEY   |  | DATE<br>26/DEC/19    | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL<br>ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |   |       |

1 2 3 4 5 6 7 8