

1 2 3 4 5 6 7 8

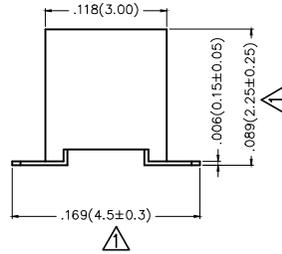
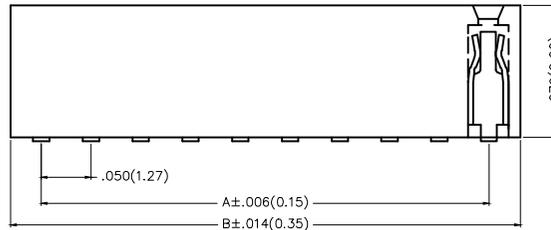
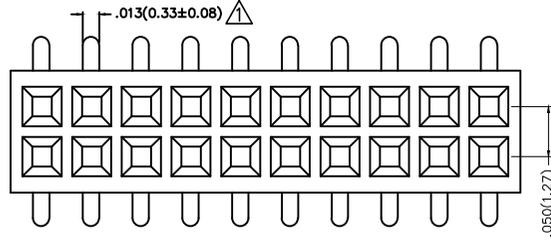
| REV | LOCATIONS | DESCRIPTION  | DATE      | REVISER | APPD   |
|-----|-----------|--------------|-----------|---------|--------|
| 1   | △         | Size changes | 08/JUL/20 | KATE    | CHERRY |

**Electrical**

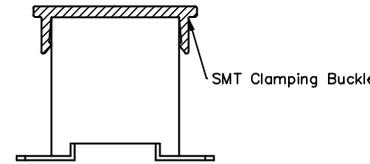
Current Rating: 1A AC(rms)/DC  
 Voltage Rating: 250V AC(rms)/DC  
 Contact Resistance: 20 mΩ Max  
 Insulation Resistance: 1000 MΩ MIN  
 Withstanding Voltage: 500V AC r.m.s  
 Temperature Range—Operating: -40°C~+85°C

**Material and Plating**

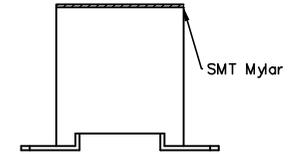
Housing: PA6T( UL 94V-0)  
 Contact Pin: Phosphor Bronze  
 Plating: Gold Plated/Selective gold on contact area, tin on tail



Packing: M—Reel(With Cap)



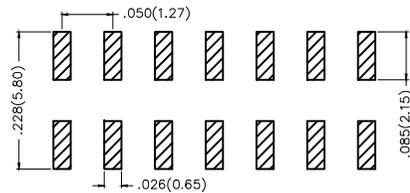
Packing: M1—Reel(With Mylar)



**Ordering Information**

FFH 127 05 — D XX S X XX 4 K6 XX  
 1 2 3 4 5 6 7 8 9 10 11

|  |  |                                   |                                     |  |   |
|--|--|-----------------------------------|-------------------------------------|--|---|
| 1 <u>Category</u><br>FFH—Female Header   | 2 <u>Series Number</u><br>127—Pitch1.27mm  | 3 <u>Distinction No.</u><br>05    | 4 <u>Row Option</u><br>D—Double Row | 5 <u>Circuits</u><br>XX  | 6 <u>Entry Angle</u><br>S—180° Vertical |
| 7 <u>Plating</u><br>1—Gold Plated<br>3—Selective gold on contact area, tin on tail | 8 <u>Thickness of Plating</u><br>00—Gold Flash<br>05—5μ"<br>Custom plate available | 9 <u>Material—Resin</u><br>4—PA6T | 10 <u>Color—Resin</u><br>K6—Black   | 11 <u>Packaging</u><br>M—Reel(With Cap)<br>M1—Reel(With Mylar) |   |



Recommended P.C.Board Layout

|                        |                                       |                            |                      |                   |  |                      |   |               |
|------------------------|---------------------------------------|----------------------------|----------------------|-------------------|--|----------------------|---|---------------|
| THIRD ANGLE PROJECTION | GENERAL TOLERANCES (UNLESS SPECIFIED) |                            | APPROVE BY<br>FRANK  | DATE<br>10/JUL/13 | PART NO.<br>FFH12705—DXXSXX4K6XX   | ITEM NO.<br>FFH12705 | <br>Leader Of Industry |               |
|                        | DESIGN UNITS<br>Inch (metric)         | X.±.012(0.30)<br>.X'±5'    | CHECKED BY<br>CHERRY | DATE<br>10/JUL/13 | TITLE<br>Board to Board (Female Header)<br>Pitch 1.27mm 180° Vertical (SMT)  |                      |   |               |
| SCALE<br>5:1           | SIZE<br>A4                            | X.XX±.006(0.15)<br>.XX'±1" | DRAWN BY<br>JACOB    | DATE<br>10/JUL/13 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                      | REV 1   | SHEET NO. 1/2 |

1 2 3 4 5 6 7 8

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

| Circuits (n) | Part No.             | Dimensions(in/mm) |              | Circuits (n) | Part No.             | Dimensions(in/mm) |              |
|--------------|----------------------|-------------------|--------------|--------------|----------------------|-------------------|--------------|
|              |                      | A                 | B            |              |                      | A                 | B            |
| 4            | FFH12705-D04SXXX4K6X | -                 | .114(2.89)   | 44           | FFH12705-D44SXXX4K6X | 1.050(26.67)      | 1.114(28.29) |
| 6            | FFH12705-D06SXXX4K6X | .100(2.54)        | .164(4.16)   | 46           | FFH12705-D46SXXX4K6X | 1.100(27.94)      | 1.164(29.56) |
| 8            | FFH12705-D08SXXX4K6X | .150(3.81)        | .214(5.43)   | 48           | FFH12705-D48SXXX4K6X | 1.150(29.21)      | 1.214(30.83) |
| 10           | FFH12705-D10SXXX4K6X | .200(5.08)        | .264(6.70)   | 50           | FFH12705-D50SXXX4K6X | 1.200(30.48)      | 1.264(32.10) |
| 12           | FFH12705-D12SXXX4K6X | .250(6.35)        | .314(7.97)   | 52           | FFH12705-D52SXXX4K6X | 1.250(31.75)      | 1.314(33.37) |
| 14           | FFH12705-D14SXXX4K6X | .300(7.62)        | .364(9.24)   | 54           | FFH12705-D54SXXX4K6X | 1.300(33.02)      | 1.364(34.64) |
| 16           | FFH12705-D16SXXX4K6X | .350(8.89)        | .414(10.51)  | 56           | FFH12705-D56SXXX4K6X | 1.350(34.29)      | 1.414(35.91) |
| 18           | FFH12705-D18SXXX4K6X | .400(10.16)       | .464(11.78)  | 58           | FFH12705-D58SXXX4K6X | 1.400(35.56)      | 1.464(37.18) |
| 20           | FFH12705-D20SXXX4K6X | .450(11.43)       | .514(13.05)  | 60           | FFH12705-D60SXXX4K6X | 1.450(36.83)      | 1.514(38.45) |
| 22           | FFH12705-D22SXXX4K6X | .500(12.70)       | .564(14.32)  | 62           | FFH12705-D62SXXX4K6X | 1.500(38.10)      | 1.564(39.72) |
| 24           | FFH12705-D24SXXX4K6X | .550(13.97)       | .614(15.59)  | 64           | FFH12705-D64SXXX4K6X | 1.550(39.37)      | 1.614(40.99) |
| 26           | FFH12705-D26SXXX4K6X | .600(15.24)       | .664(16.86)  | 66           | FFH12705-D66SXXX4K6X | 1.600(40.64)      | 1.664(42.26) |
| 28           | FFH12705-D28SXXX4K6X | .650(16.51)       | .714(18.13)  | 68           | FFH12705-D68SXXX4K6X | 1.650(41.91)      | 1.714(43.53) |
| 30           | FFH12705-D30SXXX4K6X | .700(17.78)       | .764(19.40)  | 70           | FFH12705-D70SXXX4K6X | 1.700(43.18)      | 1.764(44.80) |
| 32           | FFH12705-D32SXXX4K6X | .750(19.05)       | .814(20.67)  | 72           | FFH12705-D72SXXX4K6X | 1.750(44.45)      | 1.814(46.07) |
| 34           | FFH12705-D34SXXX4K6X | .800(20.32)       | .864(21.94)  | 74           | FFH12705-D74SXXX4K6X | 1.800(45.72)      | 1.864(47.34) |
| 36           | FFH12705-D36SXXX4K6X | .850(21.59)       | .914(23.21)  | 76           | FFH12705-D76SXXX4K6X | 1.850(46.99)      | 1.914(48.61) |
| 38           | FFH12705-D38SXXX4K6X | .900(22.86)       | .964(24.48)  | 78           | FFH12705-D78SXXX4K6X | 1.900(48.26)      | 1.964(49.88) |
| 40           | FFH12705-D40SXXX4K6X | .950(24.13)       | 1.014(25.75) | 80           | FFH12705-D80SXXX4K6X | 1.950(49.53)      | 2.014(51.15) |
| 42           | FFH12705-D42SXXX4K6X | 1.000(25.40)      | 1.064(27.02) |              |                      |                   |              |

|   |                                       |                  |  |                   |   |                      |   |
|---|---------------------------------------|------------------|--|-------------------|---|----------------------|---|
| <br>THIRD ANGLE<br>PROJECTION | GENERAL TOLERANCES (UNLESS SPECIFIED) |                  | APPROVE BY<br>FRANK  | DATE<br>10/JUL/13 | PART NO.<br>FFH12705-DXXSXXX4K6XX   | ITEM NO.<br>FFH12705 | <br>Leader Of Industry |
|   | X.±.012(0.30)                         | X'.±5'           | CHECKED BY<br>CHERRY   | DATE<br>10/JUL/13 | TITLE<br>Board to Board (Female Header)<br>Pitch 1.27mm 180° Vertical (SMT) |                      |   |
|   | X.XX±.008(0.20)                       | .X'±2'           | DRAWN BY<br>JACOB  | DATE<br>10/JUL/13 | REV 1   | SHEET NO. 2/2        |   |
|   | X.XX±.006(0.15)                       | .XX'±1'          | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL 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'   |                   |   |                      |   |

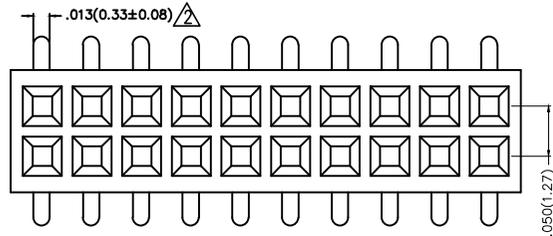
| REV | LOCATIONS | DESCRIPTION                           | DATE      | REVISER | APPD   |
|-----|-----------|---------------------------------------|-----------|---------|--------|
| 1   |           | Part NO. FFH12704 Change to FFH12705A | 20150901  | CHERRY  | FAN    |
| 2   |           | Size changes                          | 08/JUL/20 | KATE    | CHERRY |

Electrical

Current Rating: 1A 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

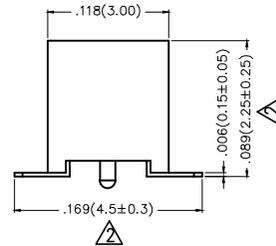
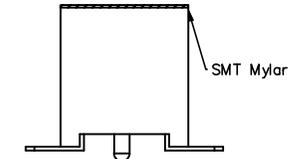
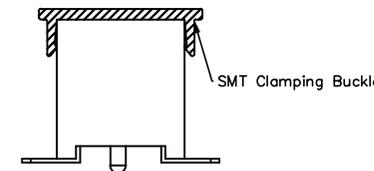
Material and Plating

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



Packing: M—Reel(With Cap)

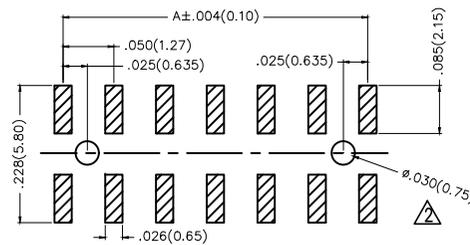
Packing: M1—Reel(With Mylar)



Ordering Information

FFH 127 05 — D XX S X XX 4 K6 XX A  
1 2 3 4 5 6 7 8 9 10 11 12

|   |   |   |   |   |                          |    |                            |    |  |    |                                |
|---|---|---|---|---|--------------------------|----|----------------------------|----|--|----|--------------------------------|
| 1 | Category<br>FFH—Female Header   | 2 | Series Number<br>127—Pitch 1.27mm   | 3 | Distinction No.<br>05    | 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 on contact area, 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>K—Tray | 12 | Type<br>A—With Position        |



Recommended P.C.Board Layout

|                        |                                       |  |  |                      |  |   |                        |
|------------------------|---------------------------------------|--|--|----------------------|--|---|------------------------|
| THIRD ANGLE PROJECTION | GENERAL TOLERANCES (UNLESS SPECIFIED) |  | APPROVE BY<br>FRANK                      | DATE<br>10/SEP/15    | PART NO.<br>FFH12705-DXXSXX4K6XXA  | ITEM NO.<br>FFH12705  | <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>01/SEP/15  | TITLE<br>Board to Board (Female Header)<br>Pitch 1.27mm 180° Vertical (SMT) |                        |
| SCALE<br>5:1           | SIZE<br>A4                            |  | DRAWN BY<br>JACOB                        | DATE<br>01/SET/15    | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |   | REV 2 SHEET NO. 1/2    |

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

| Circuits (n) | Part No.              | Dimensions(in/mm) |              | Circuits (n) | Part No.              | Dimensions(in/mm) |              |
|--------------|-----------------------|-------------------|--------------|--------------|-----------------------|-------------------|--------------|
|              |                       | A                 | B            |              |                       | A                 | B            |
| 6            | FFH12705-D06SXXX4K6XA | .100(2.54)        | .164(4.16)   | 44           | FFH12705-D44SXXX4K6XA | 1.050(26.67)      | 1.114(28.29) |
| 8            | FFH12705-D08SXXX4K6XA | .150(3.81)        | .214(5.43)   | 46           | FFH12705-D46SXXX4K6XA | 1.100(27.94)      | 1.164(29.56) |
| 10           | FFH12705-D10SXXX4K6XA | .200(5.08)        | .264(6.70)   | 48           | FFH12705-D48SXXX4K6XA | 1.150(29.21)      | 1.214(30.83) |
| 12           | FFH12705-D12SXXX4K6XA | .250(6.35)        | .314(7.97)   | 50           | FFH12705-D50SXXX4K6XA | 1.200(30.48)      | 1.264(32.10) |
| 14           | FFH12705-D14SXXX4K6XA | .300(7.62)        | .364(9.24)   | 52           | FFH12705-D52SXXX4K6XA | 1.250(31.75)      | 1.314(33.37) |
| 16           | FFH12705-D16SXXX4K6XA | .350(8.89)        | .414(10.51)  | 54           | FFH12705-D54SXXX4K6XA | 1.300(33.02)      | 1.364(34.64) |
| 18           | FFH12705-D18SXXX4K6XA | .400(10.16)       | .464(11.78)  | 56           | FFH12705-D56SXXX4K6XA | 1.350(34.29)      | 1.414(35.91) |
| 20           | FFH12705-D20SXXX4K6XA | .450(11.43)       | .514(13.05)  | 58           | FFH12705-D58SXXX4K6XA | 1.400(35.56)      | 1.464(37.18) |
| 22           | FFH12705-D22SXXX4K6XA | .500(12.70)       | .564(14.32)  | 60           | FFH12705-D60SXXX4K6XA | 1.450(36.83)      | 1.514(38.45) |
| 24           | FFH12705-D24SXXX4K6XA | .550(13.97)       | .614(15.59)  | 62           | FFH12705-D62SXXX4K6XA | 1.500(38.10)      | 1.564(39.72) |
| 26           | FFH12705-D26SXXX4K6XA | .600(15.24)       | .664(16.86)  | 64           | FFH12705-D64SXXX4K6XA | 1.550(39.37)      | 1.614(40.99) |
| 28           | FFH12705-D28SXXX4K6XA | .650(16.51)       | .714(18.13)  | 66           | FFH12705-D66SXXX4K6XA | 1.600(40.64)      | 1.664(42.26) |
| 30           | FFH12705-D30SXXX4K6XA | .700(17.78)       | .764(19.40)  | 68           | FFH12705-D68SXXX4K6XA | 1.650(41.91)      | 1.714(43.53) |
| 32           | FFH12705-D32SXXX4K6XA | .750(19.05)       | .814(20.67)  | 70           | FFH12705-D70SXXX4K6XA | 1.700(43.18)      | 1.764(44.80) |
| 34           | FFH12705-D34SXXX4K6XA | .800(20.32)       | .864(21.94)  | 72           | FFH12705-D72SXXX4K6XA | 1.750(44.45)      | 1.814(46.07) |
| 36           | FFH12705-D36SXXX4K6XA | .850(21.59)       | .914(23.21)  | 74           | FFH12705-D74SXXX4K6XA | 1.800(45.72)      | 1.864(47.34) |
| 38           | FFH12705-D38SXXX4K6XA | .900(22.86)       | .964(24.48)  | 76           | FFH12705-D76SXXX4K6XA | 1.850(46.99)      | 1.914(48.61) |
| 40           | FFH12705-D40SXXX4K6XA | .950(24.13)       | 1.014(25.75) | 78           | FFH12705-D78SXXX4K6XA | 1.900(48.26)      | 1.964(49.88) |
| 42           | FFH12705-D42SXXX4K6XA | 1.000(25.40)      | 1.064(27.02) | 80           | FFH12705-D80SXXX4K6XA | 1.950(49.53)      | 2.014(51.15) |

|  |                                       |                  |                     |  |                                   |   |   |               |
|--|---------------------------------------|------------------|---------------------|--|-----------------------------------|---|---|---------------|
| <br>THIRD ANGLE PROJECTION | GENERAL TOLERANCES (UNLESS SPECIFIED) |                  | APPROVE BY<br>FRANK | DATE<br>10/SEP/15  | PART NO.<br>FFH12705-DXXSXXX4K6XA | ITEM NO.<br>FFH12705  | <br>Leader Of Industry |               |
|  | DESIGN UNITS<br>Inch (metric)         | X.±.012(0.30)    | X.±5'               | CHECKED BY<br>CHERRY   | DATE<br>01/SEP/15                 | TITLE<br>Board to Board (Female Header)<br>Pitch 1.27mm 180° Vertical (SMT) |   |               |
|  |                                       | X.XX±.008(0.20)  | .X'±2'              | DRAWN BY<br>JACOB  | DATE<br>01/SET/15                 | REV 2   |   | SHEET NO. 2/2 |
|  |                                       | X.XX±.006(0.15)  | .XX'±1'             | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL 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'          |  |                                   |   |   |               |