

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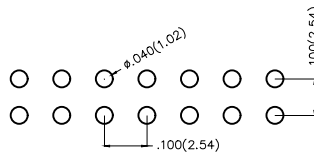
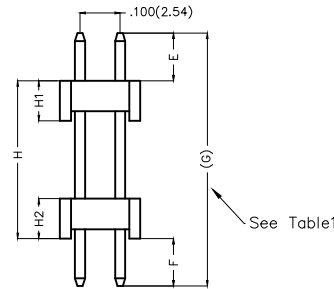
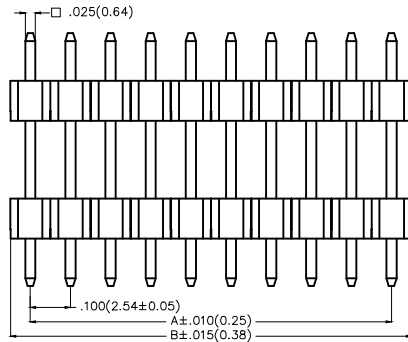
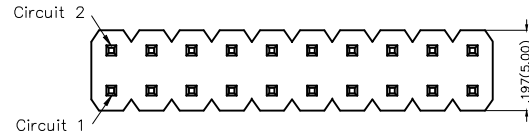
SPECIFICATIONS

Electrical

Current Rating: 3.0A AC(rms)/DC
Voltage Rating: 250V AC(rms)/DC
Contact Resistance: 20 mΩ Max
Insulation Resistance: 1000 MΩ Min
Withstanding Voltage: 600V 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 in contact area, bright tin on tail



Recommended P.C.Board Layout

Ordering Information

FPH 254 F1 — D XX S X XX X XX B
1 2 3 4 5 6 7 8 9 10 11

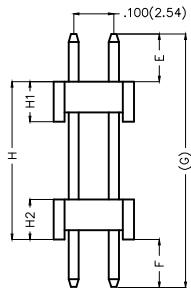
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|---|--|---|---|---|-----------------------------------|----|--|----|-----------------------|---|--------------------------------|
| 1 | Category FPH-Pin Header | 2 | Series Number 254-Pitch 2.54mm | 3 | Distinction No. F1 | 4 | Row Option D-Double Row | 5 | Circuits XX | 6 | Entry Angle S-180° Vertical |
| 7 | Plating 1-Gold plated 3-Selective gold in contact area, bright tin on tail | 8 | Thickness of Plating 01-1μ" 15-15μ" Custom plate available | 9 | Material-Resin 1-PBT 4-PA6T | 10 | Size 01,02... -Serial number (See Table1) Custom length available | 11 | Packaging B-PE Bag | | |

| | | | | | | | | |
|----------------------------|---------------------------------------|-------------------------------------|-----------------------|----------------------|---------------------------------|--|------------------------|-------|
| THIRD ANGLE PROJECTION | GENERAL TOLERANCES (UNLESS SPECIFIED) | | APPROVE BY FRANK | DATE 13/JUL/16 | PART NO. FPH254F1-DXXSXXXXXB | ITEM NO. FPH254F1 | Leader Of Industry | |
| | DESIGN UNITS Inch (metric) | X.±.012(0.30) X.X±.008(0.20) | X.'±5" .X'±2" | CHECKED BY CHERRY | DATE 13/JUL/16 | TITLE Board to Board(Pin Header) Pitch 2.54mm 180° Vertical(DIP) | | REV 0 |
| SCALE 5:1 | SIZE A4 | X.XX±.006(0.15) X.XXX±.004(0.10) | .XX'±1" .XXX'±0.5" | DRAWN BY JACOB | DATE 13/JUL/16 | 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) | | | | | | Canceled Circuits | Note | Serial number | Dimensions(in/mm) | | | | | | Canceled Circuits | Note |
|---------------|-------------------|------------|--------------|--------------|------------|------------|-------------------|-----------------|---------------|-------------------|------------|--------------|--------------|---------------|---------------|-------------------|----------------|
| | E | F | (G) | H | H1 | H2 | | | | E | F | (G) | H | H1 | H2 | | |
| 01 | .118(3.00) | .118(3.00) | .669(17.00) | .433(11.00) | .100(2.54) | .100(2.54) | —— | | 24 | .236(6.00) | .118(3.00) | .984(25.00) | .630(16.00) | .100(2.54) | .100(2.54) | —— | |
| 02 | .118(3.00) | .118(3.00) | .827(21.00) | .591(15.00) | .100(2.54) | .100(2.54) | —— | | 25 | .236(4.85) | .118(2.80) | .984(21.62) | .630(13.97) | .100(2.54) | .100(2.54) | —— | |
| 03 | .295(7.50) | .295(7.50) | 1.063(27.00) | .472(12.00) | .100(2.54) | .100(2.54) | —— | | 26 | .250(6.35) | .118(3.00) | .860(21.85) | .492(12.50) | .100(2.54) | .100(2.54) | —— | |
| 04 | .295(7.50) | .295(7.50) | 1.063(27.00) | .472(12.00) | .100(2.54) | .100(2.54) | No.2,3,4,6 | Only 10Circuits | 27 | .250(6.35) | .118(3.00) | 1.152(29.25) | .783(19.90) | .100(2.54) | .100(2.54) | —— | |
| 05 | .256(6.50) | .130(3.30) | .925(23.50) | .539(13.7) | .100(2.54) | .100(2.54) | —— | | 28 | .118(3.00) | .118(3.00) | .464(11.80) | .228(5.80) | .100(2.54) | .100(2.54) | —— | |
| 06 | .118(3.00) | .118(3.00) | .437(11.10) | .201(5.10) | .100(2.54) | .100(2.54) | —— | | 29 | .191(4.84) | .110(2.79) | 1.610(40.90) | 1.311(33.30) | .100(2.54) | .100(2.54) | —— | |
| 07 | .118(3.00) | .157(4.00) | .673(17.10) | .398(10.10) | .100(2.54) | .100(2.54) | —— | | 30 | .236(6.00) | .118(3.00) | 1.338(34.00) | .984(25.00) | .100(2.54) | .100(2.54) | —— | |
| 08 | .787(20.0) | .118(3.00) | 1.429(36.3) | .524(13.3) | .100(2.54) | .100(2.54) | —— | | 31 | .236(6.00) | .118(3.00) | .846(21.50) | .525(12.50) | .100(2.54) | .100(2.54) | —— | |
| 09 | .236(6.00) | .118(3.00) | .551(20.08) | .436(11.08) | .100(2.54) | .100(2.54) | —— | | 32 | .236(6.00) | .118(3.00) | .763(19.40) | .409(10.40) | .100(2.54) | .100(2.54) | —— | |
| 10 | .118(3.00) | .118(3.00) | .787(20.00) | .551(14.00) | .100(2.54) | .100(2.54) | —— | | 33 | | | | | | | | |
| 11 | .197(4.50) | .118(3.00) | .610(15.50) | .866(8.00) | .100(2.54) | .100(2.54) | —— | | 34 | .236(6.00) | .138(3.50) | .570(14.58) | .200(5.08) | .100(2.54) | .100(2.54) | —— | |
| 12 | .118(3.00) | .118(3.00) | 1.102(28.00) | .866(22.00) | .100(2.54) | .100(2.54) | —— | | 35 | .256(6.50) | .118(3.00) | .768(19.50) | .394(10.00) | .100(2.54) | .100(2.54) | —— | |
| 13 | .295(7.50) | .118(3.00) | .787(20.00) | .374(9.50) | .100(2.54) | .100(2.54) | —— | | 36 | .236(6.00) | .118(3.00) | .954(24.24) | .600(15.24) | .100(2.54) | .100(2.54) | —— | |
| 14 | .327(8.30) | .118(3.00) | 1.165(29.60) | .720(18.30) | .100(2.54) | .100(2.54) | —— | | 37 | .236(6.00) | .118(3.00) | .465(11.80) | .110(2.80) | .039(1.0±0.2) | .039(1.0±0.2) | —— | |
| 15 | .197(5.00) | .197(5.00) | 1.449(36.8) | 1.055(26.80) | .100(2.54) | .100(2.54) | —— | | 38 | .197(5.00) | .118(3.00) | 1.378(35.00) | 1.063(27.00) | .100(2.54) | .100(2.54) | —— | |
| 16 | .118(3.00) | .276(7.00) | .661(16.80) | .268(6.80) | .100(2.54) | .100(2.54) | —— | | 39 | .197(5.00) | .118(3.00) | 1.220(31.00) | .905(23.00) | .100(2.54) | .100(2.54) | —— | |
| 17 | .197(5.00) | .118(3.00) | .828(21.00) | .512(13.00) | .100(2.54) | .100(2.54) | —— | | 40 | .236(6.00) | .118(3.00) | .1969(50.00) | 1.614(41.00) | .100(2.54) | .100(2.54) | No.3 | Only 6Circuits |
| 18 | .236(6.00) | .118(3.00) | 1.201(30.50) | .846(21.50) | .100(2.54) | .100(2.54) | —— | | 41 | .191(4.84) | .110(2.79) | 1.610(40.90) | 1.311(33.30) | .100(2.54) | .100(2.54) | No.3 | Only 6Circuits |
| 19 | .217(5.50) | .217(5.50) | 1.465(37.20) | 1.031(26.20) | .100(2.54) | .100(2.54) | —— | | 42 | .236(6.00) | .118(3.00) | .472(12.00) | .118(3.00) | .100(2.54) | .100(2.54) | —— | |
| 20 | .315(8.00) | .118(3.00) | .768(19.50) | .335(8.50) | .100(2.54) | .100(2.54) | —— | | 43 | .630(16.00) | .118(3.00) | 1.614(41.00) | .866(22.00) | .100(2.54) | .100(2.54) | —— | |
| 21 | .236(6.00) | .118(3.00) | .984(25.50) | .630(16.50) | .100(2.54) | .100(2.54) | —— | | 44 | .079(2.00) | .299(7.60) | .866(22.00) | .488(12.40) | .100(2.54) | .100(2.54) | —— | |
| 22 | .236(6.00) | .118(3.00) | .1969(50.00) | 1.614(41.00) | .100(2.54) | .100(2.54) | —— | | 45 | .110(2.80) | .110(2.80) | 1.677(42.60) | 1.457(37.00) | .100(2.54) | .100(2.54) | —— | |
| 23 | .236(6.00) | .118(3.00) | .709(18.00) | .354(9.00) | .100(2.54) | .100(2.54) | —— | | 46 | .110(2.80) | .110(2.80) | 1.677(42.60) | 1.457(37.00) | .100(2.54) | .100(2.54) | No.3 | Only 6Circuits |

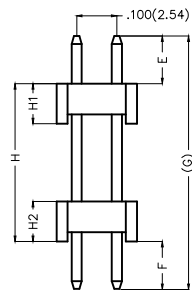


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|-------------------------------|---------------------------------------|------------|------------|-----------|--|----------|------------------------|
| THIRD ANGLE PROJECTION | GENERAL TOLERANCES (UNLESS SPECIFIED) | | APPROVE BY | DATE | PART NO. | ITEM NO. | Leader Of Industry |
| | X.±.012(0.30) | X.'±5' | FRANK | 13/JUL/16 | FPH254F1-DXXSXXXXXXB | FPH254F1 | |
| DESIGN UNITS Inch (metric) | X.XX±.008(0.20) | X.'±2' | CHECKED BY | DATE | TITLE | | REV 0 |
| SCALE | X.XX±.006(0.15) | .XX'±1' | CHERRY | 13/JUL/16 | Board to Board(Pin Header) Pitch 2.54mm 180° Vertical(DIP) | | |
| SIZE | X.XXX±.004(0.10) | .XXX'±0.5' | DRAWN BY | DATE | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | |
| 5:1 | A4 | | JACOB | 13/JUL/16 | | | |

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

Table1

| Serial number | Dimensions(in/mm) | | | | | | Canceled Circuits | Note |
|---------------|-------------------|------------|--------------|--------------|------------|------------|-------------------|-----------------------|
| | E | F | (G) | H | H1 | H2 | | |
| 47 | .630(16.00) | .118(3.00) | 1.181(30.00) | .433(11.00) | .100(2.54) | .100(2.54) | | |
| 48 | .098(2.50) | .299(7.60) | .886(22.50) | .488(12.40) | .100(2.54) | .100(2.54) | No.3,4,7,8,9,10 | Only 14Circuits |
| 49 | .236(6.00) | .118(3.00) | 1.142(29.00) | .787(20.00) | .100(2.54) | .100(2.54) | | |
| 50 | .236(6.00) | .118(3.00) | 1.516(38.50) | 1.161(29.50) | .100(2.54) | .100(2.54) | | |
| 51 | .256(6.50) | .102(2.60) | .909(23.10) | .551(14.00) | .100(2.54) | .100(2.54) | | |
| 52 | .189(4.80) | .118(3.00) | .504(12.80) | .197(5.00) | .100(2.54) | .100(2.54) | | |
| 53 | .236(6.00) | .118(3.00) | .512(13.00) | .157(4.00) | .079(2.00) | .079(2.00) | | |
| 54 | .236(6.00) | .118(3.00) | .554(14.08) | .200(5.08) | .100(2.54) | .100(2.54) | | |
| 55 | .197(5.00) | .118(3.00) | .984(25.00) | .669(17.00) | .100(2.54) | .100(2.54) | No.9,10 | Only 26,40,50Circuits |
| 56 | .197(5.00) | .118(3.00) | .787(20.00) | .472(12.00) | .100(2.54) | .100(2.54) | | |
| 57 | .118(3.00) | .118(3.00) | 1.496(38.00) | 1.260(32.00) | .100(2.54) | .100(2.54) | | |
| 58 | .236(6.00) | .118(3.00) | 2.444(62.08) | 2.090(53.08) | .100(2.54) | .100(2.54) | | |
| 59 | .118(3.00) | .118(3.00) | .394(10.00) | .157(4.00) | .079(2.00) | .079(2.00) | | |
| 60 | .197(5.00) | .118(3.00) | .984(25.00) | .669(17.00) | .100(2.54) | .100(2.54) | | |
| 61 | .118(3.00) | .118(3.00) | 1.122(28.50) | .886(22.50) | .100(2.54) | .100(2.54) | | |
| 62 | .236(6.00) | .118(3.00) | .748(19.00) | .394(10.00) | .100(2.54) | .100(2.54) | | |
| 63 | .228(5.80) | .118(3.00) | 1.035(26.30) | .689(17.50) | .100(2.54) | .100(2.54) | | |
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| THIRD ANGLE PROJECTION | GENERAL TOLERANCES (UNLESS SPECIFIED) | | APPROVE BY FRANK | DATE 13/JUL/16 | PART NO. FPH254F1-DXXSXXXXXXB | ITEM NO. FPH254F1 | Leader Of Industry | |
| | X.±.012(0.30) | X.±5' | CHECKED BY CHERRY | DATE 13/JUL/16 | TITLE Board to Board(Pin Header) Pitch 2.54mm 180° Vertical(DIP) | | | REV 0 |
| | DESIGN UNITS Inch (metric) | X.XX±.008(0.20) | .X'±2' | DRAWN BY JACOB | DATE 13/JUL/16 | 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.XXX±.004(0.10) | .XXX'±0.5' | | | | | |



1 2 3 4 5 6 7 8

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

A
B
C
D
E
F

A
B
C
D
E
F

| Circuits (n) | Part No. | Dimensions(in/mm) | | Circuits (n) | Part No. | Dimensions(in/mm) | |
|--------------|----------------------|-------------------|--------------|--------------|----------------------|-------------------|---------------|
| | | A | B | | | A | B |
| 2 | FPH254F1-D02SXXXXXXB | — | .100(2.54) | 42 | FPH254F1-D42SXXXXXXB | 2.000(50.80) | 2.100(53.34) |
| 4 | FPH254F1-D04SXXXXXXB | .100(2.54) | .200(5.08) | 44 | FPH254F1-D44SXXXXXXB | 2.100(53.34) | 2.200(55.88) |
| 6 | FPH254F1-D06SXXXXXXB | .200(5.08) | .300(7.62) | 46 | FPH254F1-D46SXXXXXXB | 2.200(55.88) | 2.300(58.42) |
| 8 | FPH254F1-D08SXXXXXXB | .300(7.62) | .400(10.16) | 48 | FPH254F1-D48SXXXXXXB | 2.300(58.42) | 2.400(60.96) |
| 10 | FPH254F1-D10SXXXXXXB | .400(10.16) | .500(12.70) | 50 | FPH254F1-D50SXXXXXXB | 2.400(60.96) | 2.500(63.50) |
| 12 | FPH254F1-D12SXXXXXXB | .500(12.70) | .600(15.24) | 52 | FPH254F1-D52SXXXXXXB | 2.500(63.50) | 2.600(66.04) |
| 14 | FPH254F1-D14SXXXXXXB | .600(15.24) | .700(17.78) | 54 | FPH254F1-D54SXXXXXXB | 2.600(66.04) | 2.700(68.58) |
| 16 | FPH254F1-D16SXXXXXXB | .700(17.78) | .800(20.32) | 56 | FPH254F1-D56SXXXXXXB | 2.700(68.58) | 2.800(71.12) |
| 18 | FPH254F1-D18SXXXXXXB | .800(20.32) | .900(22.86) | 58 | FPH254F1-D58SXXXXXXB | 2.800(71.12) | 2.900(73.66) |
| 20 | FPH254F1-D20SXXXXXXB | .900(22.86) | 1.000(25.40) | 60 | FPH254F1-D60SXXXXXXB | 2.900(73.66) | 3.000(76.20) |
| 22 | FPH254F1-D22SXXXXXXB | 1.000(25.40) | 1.100(27.94) | 62 | FPH254F1-D62SXXXXXXB | 3.000(76.20) | 3.100(78.74) |
| 24 | FPH254F1-D24SXXXXXXB | 1.100(27.94) | 1.200(30.48) | 64 | FPH254F1-D64SXXXXXXB | 3.100(78.74) | 3.200(81.28) |
| 26 | FPH254F1-D26SXXXXXXB | 1.200(30.48) | 1.300(33.02) | 66 | FPH254F1-D66SXXXXXXB | 3.200(81.28) | 3.300(83.82) |
| 28 | FPH254F1-D28SXXXXXXB | 1.300(33.02) | 1.400(35.56) | 68 | FPH254F1-D68SXXXXXXB | 3.300(83.82) | 3.400(86.36) |
| 30 | FPH254F1-D30SXXXXXXB | 1.400(35.56) | 1.500(38.10) | 70 | FPH254F1-D70SXXXXXXB | 3.400(86.36) | 3.500(88.90) |
| 32 | FPH254F1-D32SXXXXXXB | 1.500(38.10) | 1.600(40.64) | 72 | FPH254F1-D72SXXXXXXB | 3.500(88.90) | 3.600(91.44) |
| 34 | FPH254F1-D34SXXXXXXB | 1.600(40.64) | 1.700(43.18) | 74 | FPH254F1-D74SXXXXXXB | 3.600(91.44) | 3.700(93.98) |
| 36 | FPH254F1-D36SXXXXXXB | 1.700(43.18) | 1.800(45.72) | 76 | FPH254F1-D76SXXXXXXB | 3.700(93.98) | 3.800(96.52) |
| 38 | FPH254F1-D38SXXXXXXB | 1.800(45.72) | 1.900(48.26) | 78 | FPH254F1-D78SXXXXXXB | 3.800(96.52) | 3.900(99.06) |
| 40 | FPH254F1-D40SXXXXXXB | 1.900(48.26) | 2.000(50.80) | 80 | FPH254F1-D80SXXXXXXB | 3.900(99.06) | 4.000(101.60) |

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|--|---------------------------------------|------------------|------------|-----------|---|--|---|----------------------|---------------|
|  THIRD ANGLE PROJECTION | GENERAL TOLERANCES (UNLESS SPECIFIED) | | APPROVE BY | DATE | PART NO. | ITEM NO. |  Leader Of Industry | | |
| | X.±.012(0.30) | X.±5' | FRANK | 13/JUL/16 | | | | FPH254F1-DXXSXXXXXXB | FPH254F1 |
| | X.X±.008(0.20) | X.±2' | CHECKED BY | DATE | TITLE | | | REV 0 | SHEET NO. 4/4 |
| | X.XX±.006(0.15) | .XX±1' | CHERRY | 13/JUL/16 | Board to Board(Pin Header) Pitch 2.54mm 180° Vertical(DIP) | | | | |
| SCALE | SIZE | X.XXX±.004(0.10) | .XXX±0.5' | DRAWN BY | DATE | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION | | | |
| 5:1 | A4 | JACOB | JACOB | 13/JUL/16 | 13/JUL/16 | | | | |

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