

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

SPECIFICATIONS

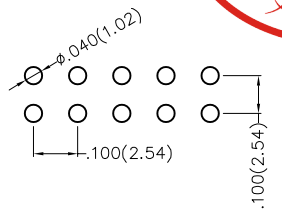
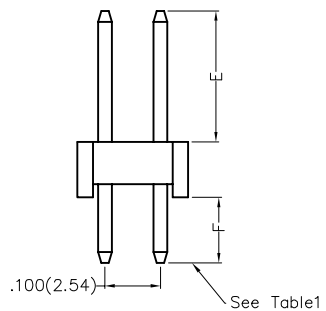
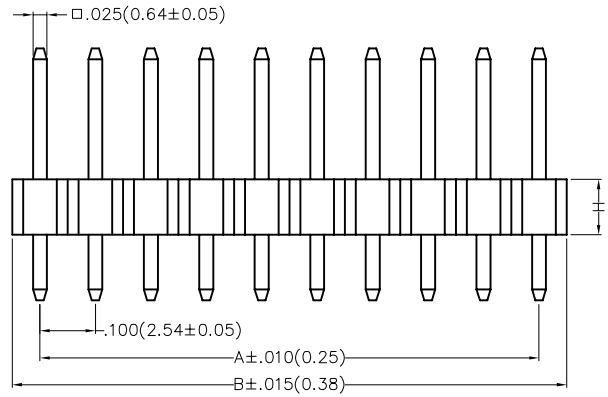
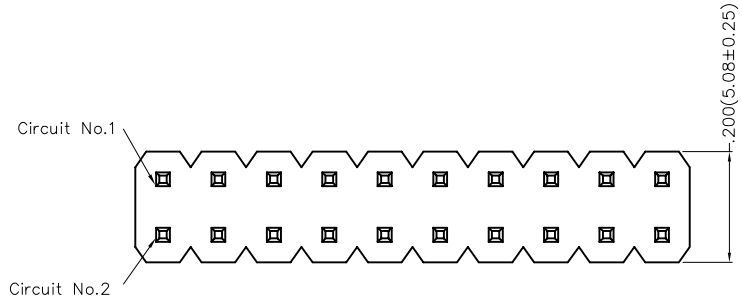
Electrical

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 plated on contact area and 120μ" Min. matte tin plated on tails area

\* Note: All materials meet the "EU RoHs"



Recommended P.C.Board Layout

Ordering Information

FPH 254 52 - D XX S X XX X XX XX X 0 B  
1 2 3 4 5 6 7 8 9 10 11 12 13

|                              |                                    |                         |                              |                  |                                  |  |
|------------------------------|------------------------------------|-------------------------|------------------------------|------------------|----------------------------------|--|
| 1 Category<br>FPH-Pin Header | 2 Series Number<br>254-Pitch2.54mm | 3 Distinction No.<br>52 | 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>7-Selective gold plated on contact area and matte tin plated on tails area |
|------------------------------|------------------------------------|-------------------------|------------------------------|------------------|----------------------------------|--|

|   |                                     |   |   |   |                          |
|---|-------------------------------------|---|---|---|--------------------------|
| 8 Thickness of Plating<br>01-1μ"<br>15-15μ"<br>Custom plate available | 9 Material-Resin<br>1-PBT<br>4-PA6T | 10 E Size<br>01,02...-Serial number<br>(See Table1) | 11 F Size<br>01,02...-Serial number<br>(See Table1) | 12 H Size<br>1,2...-Serial number<br>(See Table1) | 13 Packaging<br>B-PE Bag |
|---|-------------------------------------|---|---|---|--------------------------|

|                                   |  |  |   |                      |                                      |  |                      |               |
|-----------------------------------|--|--|---|----------------------|--------------------------------------|--|----------------------|---------------|
| <br><b>THIRD ANGLE PROJECTION</b> | GENERAL TOLERANCES (UNLESS SPECIFIED)  |  | APPROVE BY<br>FRANK                       | DATE<br>24/DEC/19    | PART NO.<br>FPH25452-DXXSXXXXXXXXX0B | ITEM NO.<br>FPH25452   | <br><b>3K-KAMING</b> |               |
|                                   | 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>24/DEC/19                    | TITLE<br>Board to Board(Pin Header)<br>Pitch 2.54mm 180° Vertical(DIP) |                      |               |
|                                   | SCALE<br>5:1   | SIZE<br>A<   |   | DRAWN BY<br>ZOEY     | DATE<br>24/DEC/19                    | REV 0  |                      | SHEET NO. 1/3 |
|                                   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO DONG GUAN LANG LUN(3K-KAMING) ELECTRONIC PRODUCTS CO., LTD. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |  |   |                      |                                      |  |                      |               |



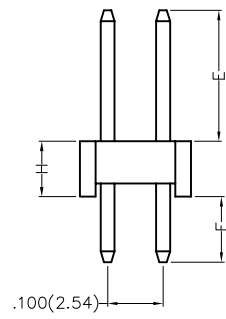
工程部

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

Table1

| Serial number | Dimensions(in./mm) |  | Serial number | Dimensions(in./mm) |  |
|---------------|--------------------|--|---------------|--------------------|--|
|               | E                  |  |               | E                  |  |
| 01            | .059(1.50)         |  | 25            | .295(7.50)         |  |
| 02            | .069(1.75)         |  | 26            | .305(7.75)         |  |
| 03            | .079(2.00)         |  | 27            | .315(8.00)         |  |
| 04            | .089(2.25)         |  | 28            | .325(8.25)         |  |
| 05            | .098(2.50)         |  | 29            | .335(8.50)         |  |
| 06            | .108(2.75)         |  | 30            | .344(8.75)         |  |
| 07            | .118(3.00)         |  | 31            | .354(9.00)         |  |
| 08            | .128(3.25)         |  | 32            | .364(9.25)         |  |
| 09            | .138(3.50)         |  | 33            | .374(9.50)         |  |
| 10            | .148(3.75)         |  | 34            | .384(9.75)         |  |
| 11            | .157(4.00)         |  | 35            | .394(10.00)        |  |
| 12            | .167(4.25)         |  | 36            | .404(10.25)        |  |
| 13            | .177(4.50)         |  | 37            | .413(10.50)        |  |
| 14            | .187(4.75)         |  | 38            | .423(10.75)        |  |
| 15            | .197(5.00)         |  | 39            | .433(11.00)        |  |
| 16            | .207(5.25)         |  | 40            | .443(11.25)        |  |
| 17            | .217(5.50)         |  | 41            | .453(11.50)        |  |
| 18            | .226(5.75)         |  | 42            | .463(11.75)        |  |
| 19            | .236(6.00)         |  | 43            | .472(12.00)        |  |
| 20            | .246(6.25)         |  | 44            | .482(12.25)        |  |
| 21            | .256(6.50)         |  | 45            | .492(12.50)        |  |
| 22            | .266(6.75)         |  | 46            | .502(12.75)        |  |
| 23            | .276(7.00)         |  | 47            | .512(13.00)        |  |
| 24            | .285(7.25)         |  | 48            |                    |  |

| Serial number | Dimensions(in./mm) |  | Serial number | Dimensions(in./mm) |  |
|---------------|--------------------|--|---------------|--------------------|--|
|               | F                  |  |               | F                  |  |
| 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)         |  | 36            |                    |  |



| Serial number | Dimensions(in./mm) |
|---------------|--------------------|
| H             |                    |
| 1             | .039(1.00)         |
| 2             | .059(1.50)         |
| 3             | .079(2.00)         |
| 4             | .098(2.50)         |



|  |                                       |            |                      |                   |   |                      |                                       |
|--|---------------------------------------|------------|----------------------|-------------------|---|----------------------|---------------------------------------|
| <br>THIRD ANGLE PROJECTION<br><br>DESIGN UNITS<br>Inch (metric)<br><br>SCALE<br>5:1<br><br>SIZE<br>A/L | GENERAL TOLERANCES (UNLESS SPECIFIED) |            | APPROVE BY<br>FRANK  | DATE<br>24/DEC/19 | PART NO.<br>FPH25452-DXXSXXXXXXXXXX0B   | ITEM NO.<br>FPH25452 | <br>3K-KAMING®<br>REV 0 SHEET NO. 2/3 |
|  | X.±.012(0.30)                         | X.±5'      | CHECKED BY<br>CHERRY | DATE<br>24/DEC/19 | TITLE<br>Board to Board (Pin Header)<br>Pitch 2.54mm 180° Vertical (DIP)  |                      |                                       |
|  | X.X±.008(0.20)                        | .X'±2'     | DRAWN BY<br>ZOEY     | DATE<br>24/DEC/19 | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO DONG GUAN LANG LUN(3K-KAMING) ELECTRONIC PRODUCTS CO.,LTD. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                      |                                       |
|  | X.XX±.006(0.15)                       | .XX'±1'    |                      |                   |   |                      |                                       |
|  | X.XXX±.004(0.10)                      | .XXX'±0.5' |                      |                   |   |                      |                                       |

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



| Circuits (n) | Part No.                 | Dimensions(in/mm) |              | Circuits (n) | Part No.                 | Dimensions(in/mm) |               |
|--------------|--------------------------|-------------------|--------------|--------------|--------------------------|-------------------|---------------|
|              |                          | A                 | B            |              |                          | A                 | B             |
| 2            | FPH25452-D02SXXXXXXXXX0B | —                 | .100(2.54)   | 42           | FPH25452-D42SXXXXXXXXX0B | 2.000(50.80)      | 2.100(53.34)  |
| 4            | FPH25452-D04SXXXXXXXXX0B | .100(2.54)        | .200(5.08)   | 44           | FPH25452-D44SXXXXXXXXX0B | 2.100(53.34)      | 2.200(55.88)  |
| 6            | FPH25452-D06SXXXXXXXXX0B | .200(5.08)        | .300(7.62)   | 46           | FPH25452-D46SXXXXXXXXX0B | 2.200(55.88)      | 2.300(58.42)  |
| 8            | FPH25452-D08SXXXXXXXXX0B | .300(7.62)        | .400(10.16)  | 48           | FPH25452-D48SXXXXXXXXX0B | 2.300(58.42)      | 2.400(60.96)  |
| 10           | FPH25452-D10SXXXXXXXXX0B | .400(10.16)       | .500(12.70)  | 50           | FPH25452-D50SXXXXXXXXX0B | 2.400(60.96)      | 2.500(63.50)  |
| 12           | FPH25452-D12SXXXXXXXXX0B | .500(12.70)       | .600(15.24)  | 52           | FPH25452-D52SXXXXXXXXX0B | 2.500(63.50)      | 2.600(66.04)  |
| 14           | FPH25452-D14SXXXXXXXXX0B | .600(15.24)       | .700(17.78)  | 54           | FPH25452-D54SXXXXXXXXX0B | 2.600(66.04)      | 2.700(68.58)  |
| 16           | FPH25452-D16SXXXXXXXXX0B | .700(17.78)       | .800(20.32)  | 56           | FPH25452-D56SXXXXXXXXX0B | 2.700(68.58)      | 2.800(71.12)  |
| 18           | FPH25452-D18SXXXXXXXXX0B | .800(20.32)       | .900(22.86)  | 58           | FPH25452-D58SXXXXXXXXX0B | 2.800(71.12)      | 2.900(73.66)  |
| 20           | FPH25452-D20SXXXXXXXXX0B | .900(22.86)       | 1.000(25.40) | 60           | FPH25452-D60SXXXXXXXXX0B | 2.900(73.66)      | 3.000(76.20)  |
| 22           | FPH25452-D22SXXXXXXXXX0B | 1.000(25.40)      | 1.100(27.94) | 62           | FPH25452-D62SXXXXXXXXX0B | 3.000(76.20)      | 3.100(78.74)  |
| 24           | FPH25452-D24SXXXXXXXXX0B | 1.100(27.94)      | 1.200(30.48) | 64           | FPH25452-D64SXXXXXXXXX0B | 3.100(78.74)      | 3.200(81.28)  |
| 26           | FPH25452-D26SXXXXXXXXX0B | 1.200(30.48)      | 1.300(33.02) | 66           | FPH25452-D66SXXXXXXXXX0B | 3.200(81.28)      | 3.300(83.82)  |
| 28           | FPH25452-D28SXXXXXXXXX0B | 1.300(33.02)      | 1.400(35.56) | 68           | FPH25452-D68SXXXXXXXXX0B | 3.300(83.82)      | 3.400(86.36)  |
| 30           | FPH25452-D30SXXXXXXXXX0B | 1.400(35.56)      | 1.500(38.10) | 70           | FPH25452-D70SXXXXXXXXX0B | 3.400(86.36)      | 3.500(88.90)  |
| 32           | FPH25452-D32SXXXXXXXXX0B | 1.500(38.10)      | 1.600(40.64) | 72           | FPH25452-D72SXXXXXXXXX0B | 3.500(88.90)      | 3.600(91.44)  |
| 34           | FPH25452-D34SXXXXXXXXX0B | 1.600(40.64)      | 1.700(43.18) | 74           | FPH25452-D74SXXXXXXXXX0B | 3.600(91.44)      | 3.700(93.98)  |
| 36           | FPH25452-D36SXXXXXXXXX0B | 1.700(43.18)      | 1.800(45.72) | 76           | FPH25452-D76SXXXXXXXXX0B | 3.700(93.98)      | 3.800(96.52)  |
| 38           | FPH25452-D38SXXXXXXXXX0B | 1.800(45.72)      | 1.900(48.26) | 78           | FPH25452-D78SXXXXXXXXX0B | 3.800(96.52)      | 3.900(99.06)  |
| 40           | FPH25452-D40SXXXXXXXXX0B | 1.900(48.26)      | 2.000(50.80) | 80           | FPH25452-D80SXXXXXXXXX0B | 3.900(99.06)      | 4.000(101.60) |



|                               |                                       |                 |                   |                |  |  |                  |                     |
|-------------------------------|---------------------------------------|-----------------|-------------------|----------------|--|--|------------------|---------------------|
| <p>THIRD ANGLE PROJECTION</p> | GENERAL TOLERANCES (UNLESS SPECIFIED) |                 | APPROVE BY FRANK  | DATE 24/DEC/19 | PART NO. FPH25452-DXXSXXXXXXXXX0B                                | ITEM NO. FPH25452  | <p>3K-KAMING</p> |                     |
|                               | X.±.012(0.30)                         | X.±5'           | CHECKED BY CHERRY | DATE 24/DEC/19 | TITLE Board to Board(Pin Header) Pitch 2.54mm 180° Vertical(DIP) |  |                  | REV 0 SHEET NO. 3/3 |
|                               | DESIGN UNITS Inch (metric)            | X.XX±.008(0.20) | .X'±2'            | DRAWN BY ZOEY  | DATE 24/DEC/19   | THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO DONG GUAN LANG LUN(3K-KAMING) ELECTRONIC PRODUCTS CO., LTD. AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION |                  |                     |
|                               | SCALE 5:1                             | SIZE A/L        | X.XX±.006(0.15)   | .XX'±1'        | X.XXX±.004(0.10)   | .XXX±0.5'  |                  |                     |