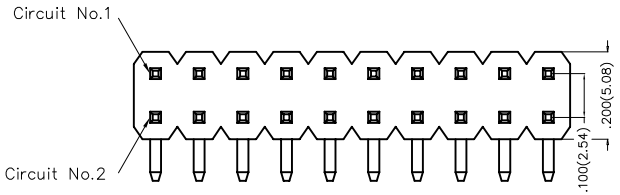
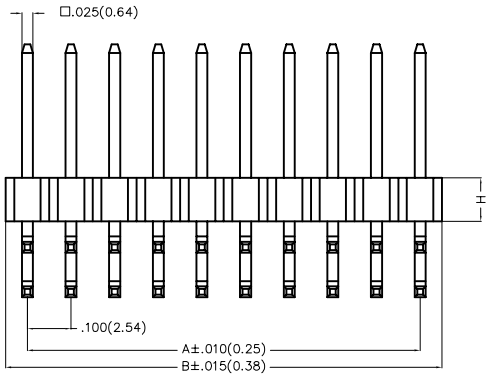
REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD

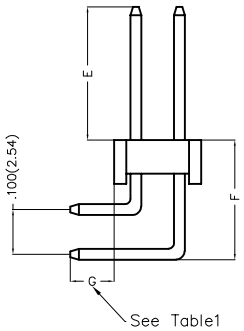
SPECIFICATIONS

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 in contact area, bright tin on tail



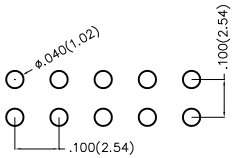




Ordering Information

FPH	254	22	—	D	XX	B	X	XX	X	XX	B
1	2	3		4	5	6	7	8	9	10	11

1	Category: FPH–Pin Header	2	Series Number: 254–Pitch2.54mm	3	Distionction No.: 22	4	Row Option: D–Double Row	5	Circuits: XX	6	Entry Angle: B–90° Angle
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		



Recommended P.C.Board Layout

THIRD ANGLE PROJECTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY FRANK	DATE 29/JUL/13	PART NO. FPH25422–DXXBXXXXXXB	ITEM NO. FPH25422	TXGA Leader Of Industry
DESIGN UNITS Inch (metric)	X.±.012(0.30)	X.°±5°	CHECKED BY CHERRY	DATE 29/JUL/13	TITLE Board to Board(Pin Header) Pitch 2.54mm 90° Angle(DIP)		
	X.X±.008(0.20)	.X°±2°					
SCALE 5:1 / SIZE A4	X.XX±.006(0.15)	.XX°±1°	DRAWN BY JACOB	DATE 29/JUL/13		REV 0	SHEET NO. 1/4
	X.XXX±.004(0.10)	.XXX°±0.5°					

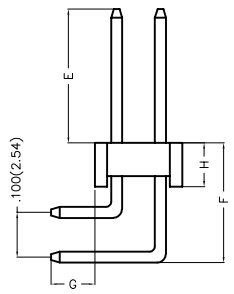
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD

Table1

Serial number	Dimensions(in/mm) E	F	G	H	Canceled Circuits	Note
01	.236(6.00)	.273(6.94)	.118(3.00)	.100(2.54)	—	
02	.157(4.00)	.272(6.90)	.118(3.00)	.100(2.54)	No.3,4,7,8	Only 10Circuits
03	.118(3.00)	.273(6.94)	.118(3.00)	.100(2.54)	—	
04	.118(3.00)	.250(6.35)	.118(3.00)	.100(2.54)	—	
05	.118(3.00)	.273(6.94)	.118(3.00)	.100(2.54)	No.9,10,21,22,31, 32,41,42	Only 50Circuits
06	.165(4.20)	.250(6.35)	.118(3.00)	.100(2.54)	No.5,6,7,8,9, 10,13,14	Only 16Circuits
07	.118(3.00)	.250(6.35)	.118(3.00)	.100(2.54)	No.3,4,7,8	Only 16Circuits
08	.165(4.20)	.250(6.35)	.118(3.00)	.100(2.54)	No.3,4,7,8	Only 16Circuits
09	.141(3.56)	.250(6.35)	.126(3.20)	.098(2.50)	—	
10	.236(6.00)	.272(6.90)	.138(3.50)	.098(2.50)	—	
11	.472(12.00)	.273(6.94)	.118(3.00)	.100(2.54)	—	
12	.165(4.20)	.250(6.35)	.118(3.00)	.100(2.54)	—	
13	.157(4.00)	.272(6.90)	.118(3.00)	.100(2.54)	—	
14	.236(6.00)	.273(6.94)	.197(5.00)	.100(2.54)	—	
15	.295(7.50)	.291(7.40)	.118(3.00)	.100(2.54)	—	
16	.472(12.00)	.276(7.00)	.276(7.00)	.100(2.50)	No.2,4,6,8,10	Only 10Circuits
17	.236(6.00)	.272(6.92)	.118(3.00)	.100(2.54)	No.5,6,7,8,9,10	Only 14Circuits
18	.177(4.50)	.273(6.94)	.118(3.00)	.100(2.54)	—	
19	.177(4.50)	.272(6.92)	.118(3.00)	.100(2.54)	No.5,6,7,8,9,10	Only 14Circuits
20	.092(2.35)	.218(5.55)	.190(4.84)	.100(2.54)	—	
21	.326(8.30)	.259(6.58)	.118(3.00)	.100(2.54)	—	
22	.138(3.50)	.126(3.20)	.118(3.00)	.100(2.54)	—	
23	.236(6.00)	.259(6.58)	.118(3.00)	.100(2.54)	—	
24	.411(10.44)	.277(7.04)	.315(8.00)	.100(2.54)	—	
25	.413(10.50)	.251(6.38)	.315(8.00)	.100(2.54)	—	
26	.630(16.00)	.277(7.04)	.315(8.00)	.100(2.54)	—	
27	.126(3.20)	.260(6.60)	.126(3.20)	.100(2.54)	—	
28						
29	.165(4.20)	.250(6.35)	.118(3.00)	.100(2.54)	No.3,4,5,6,7,8,11,12, 13,14,15,16	Only 20Circuits
30	.165(4.20)	.250(6.35)	.118(3.00)	.100(2.54)	No.3,4,5,6,7,8,11,12,13,14, 15,16,19,20,21,22,23,24	Only 28Circuits

Serial number	Dimensions(in/mm) E	F	G	H	Canceled Circuits	Note
31	.165(4.20)	.250(6.35)	.118(3.00)	.100(2.54)	No.5,6,7,8,9,10,13,14,15,16, 17,18,21,22,23,24,25,26	Only 28Circuits
32	.165(4.20)	.250(6.35)	.118(3.00)	.100(2.54)	No.3,4,5,6,7,8,11,12,13,14, 17,18,19,20,21,22	Only 28Circuits
33	.157(4.00)	.272(6.90)	.118(3.00)	.098(2.50)	No.9,10,11,12,15,16,17,18, 23,24,25,26,29,30,31,32	Only 40Circuits
34	.165(4.20)	.248(6.30)	.118(3.00)	.100(2.54)	No.3,4	Only 24Circuits
35	.157(4.00)	.250(6.35)	.110(2.80)	.100(2.54)	—	
36	.165(4.20)	.250(6.35)	.118(3.00)	.100(2.54)	No.3,4,5,6,7,8,9,10,11,12, 15,16,17,18,19,20	Only 24Circuits
37						
38						
39						
40						
41	.394(10.00)	.276(7.00)	.118(3.00)	.100(2.54)	—	
42	.236(6.00)	.173(4.40)	.118(3.00)	.100(2.54)	—	
43	.230(5.84)	.643(16.32)	.100(2.54)	.100(2.54)	—	
44	.787(20.00)	.273(6.94)	.118(3.00)	.100(2.54)	—	
45	.236(6.00)	.273(6.94)	.118(3.00)	.100(2.54)	No.5,6,7,8	Only 18Circuits
46	.236(6.00)	.273(6.94)	.118(3.00)	.100(2.54)	No.3,4,5,6,7,8,9,10,13,14, 15,16,17,18,19,20,21,22	Only 26Circuits
47	.236(6.00)	.273(6.94)	.118(3.00)	.100(2.54)	No.3,4	Only 6, 24Circuits
48	.236(6.00)	.273(6.94)	.118(3.00)	.100(2.54)	No.9,10,11,12,15,16,17,18, 21,22,23,24	Only 26Circuits
49	.236(6.00)	.273(6.94)	.118(3.00)	.100(2.54)	No.3,4,5,6,9,10,11,12	Only 14Circuits
50	.236(6.00)	.273(6.94)	.118(3.00)	.100(2.54)	No.3,4,7,8,11,12,15,16,19, 20,23,24	Only 26Circuits
51	.236(6.00)	.273(6.94)	.118(3.00)	.100(2.54)	No.3,4,7,8,11,12,13,14,17, 18,19,20,23,24,25,26	Only 26, 28Circuits
52	.236(6.00)	.273(6.94)	.118(3.00)	.100(2.54)	No.3,4,5,6	Only 8Circuits
53	.236(6.00)	.228(5.80)	.118(3.00)	.100(2.54)	—	
54	.157(4.00)	.252(6.40)	.118(3.00)	.100(2.54)	—	



THIRD ANGLE PROJECTION

DESIGN UNITS Inch (metric)

SCALE 5:1 SIZE A4

GENERAL TOLERANCES (UNLESS SPECIFIED)

X.±.012(0.30)	X.°±5°
X.X±.008(0.20)	.X°±2°
X.XX±.006(0.15)	.XX°±1°
X.XXX±.004(0.10)	.XXX°±0.5°

APPROVE BY	FRANK	DATE	29/JUL/13
CHECKED BY	CHERRY	DATE	29/JUL/13
DRAWN BY	JACOB	DATE	29/JUL/13

PART NO. FPH25422-DXXBXXXXXXB

ITEM NO. FPH25422

TXGA Leader Of Industry

TITLE Board to Board(Pin Header) Pitch 2.54mm 90° Angle(DIP)

REV 0

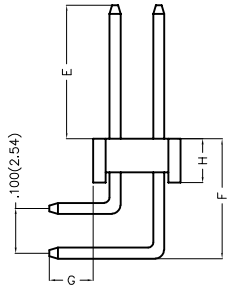
SHEET NO. 2/4

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
	E	F	G	H		
55	.295(7.50)	.252(6.40)	.130(3.30)	.100(2.54)	—	
56	.231(5.86)	.260(6.60)	.118(3.00)	.100(2.54)	—	
57	.236(6.00)	.273(6.94)	.118(3.00)	.100(2.54)	No.11~14	Only 16Circuits
58	.236(6.00)	.273(6.94)	.118(3.00)	.100(2.54)	No.13~16	Only 20Circuits
59	.236(6.00)	.272(6.90)	.138(3.50)	.098(2.50)	No.3,4,7,8,11,12,13,14	Only 20Circuits
60	.250(6.35)	.250(6.35)	.169(4.30)	.100(2.54)	—	
61	.236(6.00)	.276(7.00)	.177(4.50)	.100(2.54)	—	
62	.354(9.00)	.256(6.50)	.118(3.00)	.100(2.54)	—	



THIRD ANGLE PROJECTION

DESIGN UNITS Inch (metric)

SCALE 5:1 | SIZE A4

GENERAL TOLERANCES (UNLESS SPECIFIED)

X.±.012(0.30)	X.°±5°
X.X±.008(0.20)	.X°±2°
X.XX±.006(0.15)	.XX°±1°
X.XXX±.004(0.10)	.XXX°±0.5°

APPROVE BY	FRANK	DATE 29/JUL/13
CHECKED BY	CHERRY	DATE 29/JUL/13
DRAWN BY	JACOB	DATE 29/JUL/13

PART NO. FPH25422-DXXBXXXXXXB

ITEM NO. FPH25422

TITLE Board to Board(Pin Header) Pitch 2.54mm 90° Angle(DIP)

TXGA Leader Of Industry

REV 0 | SHEET NO. 3/4

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

Circuits (n)	Part No.	Dimensions(in/mm) A	Dimensions(in/mm) B
2	FPH25422-D02BXXXXXXB	——	.100(2.54)
4	FPH25422-D04BXXXXXXB	.100(2.54)	.200(5.08)
6	FPH25422-D06BXXXXXXB	.200(5.08)	.300(7.62)
8	FPH25422-D08BXXXXXXB	.300(7.62)	.400(10.16)
10	FPH25422-D10BXXXXXXB	.400(10.16)	.500(12.70)
12	FPH25422-D12BXXXXXXB	.500(12.70)	.600(15.24)
14	FPH25422-D14BXXXXXXB	.600(15.24)	.700(17.78)
16	FPH25422-D16BXXXXXXB	.700(17.78)	.800(20.32)
18	FPH25422-D18BXXXXXXB	.800(20.32)	.900(22.86)
20	FPH25422-D20BXXXXXXB	.900(22.86)	1.000(25.40)
22	FPH25422-D22BXXXXXXB	1.000(25.40)	1.100(27.94)
24	FPH25422-D24BXXXXXXB	1.100(27.94)	1.200(30.48)
26	FPH25422-D26BXXXXXXB	1.200(30.48)	1.300(33.02)
28	FPH25422-D28BXXXXXXB	1.300(33.02)	1.400(35.56)
30	FPH25422-D30BXXXXXXB	1.400(35.56)	1.500(38.10)
32	FPH25422-D32BXXXXXXB	1.500(38.10)	1.600(40.64)
34	FPH25422-D34BXXXXXXB	1.600(40.64)	1.700(43.18)
36	FPH25422-D36BXXXXXXB	1.700(43.18)	1.800(45.72)
38	FPH25422-D38BXXXXXXB	1.800(45.72)	1.900(48.26)
40	FPH25422-D40BXXXXXXB	1.900(48.26)	2.000(50.80)

Circuits (n)	Part No.	Dimensions(in/mm) A	Dimensions(in/mm) B
42	FPH25422-D42BXXXXXXB	2.000(50.80)	2.100(53.34)
44	FPH25422-D44BXXXXXXB	2.100(53.34)	2.200(55.88)
46	FPH25422-D46BXXXXXXB	2.200(55.88)	2.300(58.42)
48	FPH25422-D48BXXXXXXB	2.300(58.42)	2.400(60.96)
50	FPH25422-D50BXXXXXXB	2.400(60.96)	2.500(63.50)
52	FPH25422-D52BXXXXXXB	2.500(63.50)	2.600(66.04)
54	FPH25422-D54BXXXXXXB	2.600(66.04)	2.700(68.58)
56	FPH25422-D56BXXXXXXB	2.700(68.58)	2.800(71.12)
58	FPH25422-D58BXXXXXXB	2.800(71.12)	2.900(73.66)
60	FPH25422-D60BXXXXXXB	2.900(73.66)	3.000(76.20)
62	FPH25422-D62BXXXXXXB	3.000(76.20)	3.100(78.74)
64	FPH25422-D64BXXXXXXB	3.100(78.74)	3.200(81.28)
66	FPH25422-D66BXXXXXXB	3.200(81.28)	3.300(83.82)
68	FPH25422-D68BXXXXXXB	3.300(83.82)	3.400(86.36)
70	FPH25422-D70BXXXXXXB	3.400(86.36)	3.500(88.90)
72	FPH25422-D72BXXXXXXB	3.500(88.90)	3.600(91.44)
74	FPH25422-D74BXXXXXXB	3.600(91.44)	3.700(93.98)
76	FPH25422-D76BXXXXXXB	3.700(93.98)	3.800(96.52)
78	FPH25422-D78BXXXXXXB	3.800(96.52)	3.900(99.06)
80	FPH25422-D80BXXXXXXB	3.900(99.06)	4.000(101.60)

THIRD ANGLE PROJECTION

DESIGN UNITS Inch (metric)

SCALE 5:1 SIZE A4

GENERAL TOLERANCES (UNLESS SPECIFIED)

X.±.012(0.30)	X.°±5°
X.X±.008(0.20)	.X°±2°
X.XX±.006(0.15)	.XX°±1°
X.XXX±.004(0.10)	.XXX°±0.5°

APPROVE BY	FRANK	DATE 29/JUL/13
CHECKED BY	CHERRY	DATE 29/JUL/13
DRAWN BY	JACOB	DATE 29/JUL/13

PART NO. FPH25422-DXXBXXXXXXB

ITEM NO. FPH25422

TITLE Board to Board(Pin Header) Pitch 2.54mm 90° Angle(DIP)

TXGA Leader Of Industry

REV 0

SHEET NO. 4/4

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