

REV	LOCATIONS	DESCRIPTION	DATE	REVISED	APPD

SPECIFICATIONS

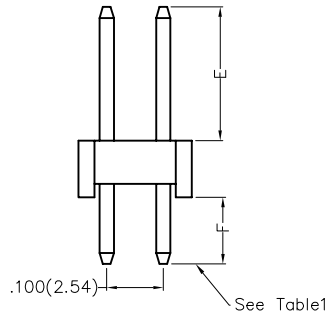
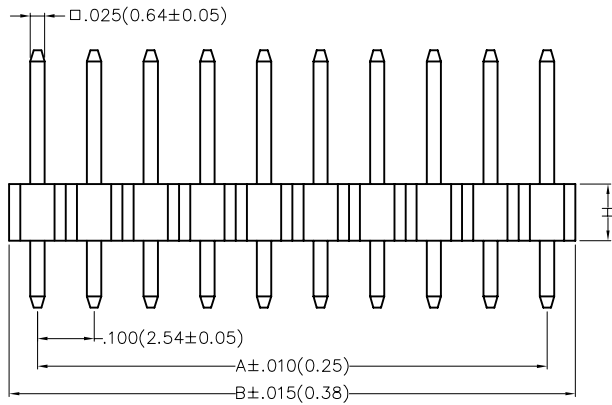
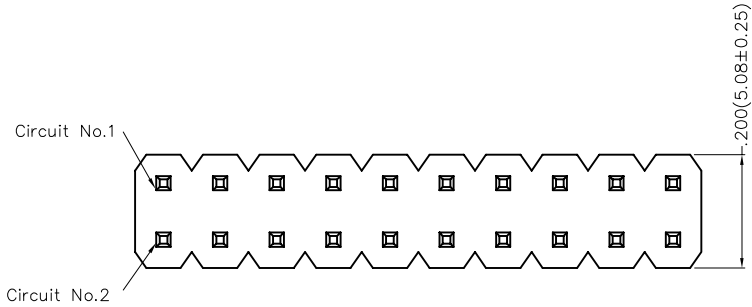
Electrical

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

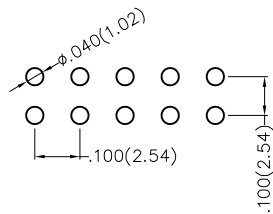
* Note: All materials meet the "EU RoHs"



Ordering Information

FPH 254 21 — D XX S 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 Distinction No. 21	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	



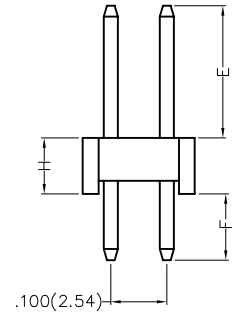
Recommended P.C.Board Layout

<p>THIRD ANGLE PROJECTION</p>	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY FRANK	DATE 01/JUN/16	PART NO. FPH25421-DXXSXXXXXB	ITEM NO. FPH25421	<p>Leader Of Industry</p>
	X.±.012(0.30)	X'.±5'	CHECKED BY CHERRY	DATE 01/JUN/16	TITLE Board to Board(Pin Header) Pitch 2.54mm 180° Vertical(DIP)	REV 0	
	DESIGN UNITS Inch (metric)	X.X±.008(0.20)	X'.±2'	DRAWN BY KATE	DATE 01/JUN/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	H				E	F	H		
01	.236(6.00)	.118(3.00)	.100(2.54)	—		27	.118(3.00)	.374(9.50)	.100(2.54)	—	
02	.236(6.00)	.118(3.00)	.100(2.54)	No.10	Only 10, 14Circuits	28					
03	.230(5.85)	.100(2.54)	.100(2.54)	—		29	.236(6.00)	.118(3.00)	.100(2.54)	No.4	Only 10Circuits
04	.236(6.00)	.118(3.00)	.100(2.54)	No.3,4	Only 10Circuits	30	.236(6.00)	.118(3.00)	.100(2.54)	No.9	Only 10Circuits
05	.157(4.00)	.118(3.00)	.100(2.54)	—		31	.197(5.00)	.197(5.00)	.100(2.54)	—	
06						32	.236(6.00)	.236(6.00)	.100(2.54)	—	
07	.177(4.50)	.118(3.00)	.100(2.54)	—		33	.108(2.75)	.262(6.65)	.059(1.50)	—	
08	.236(6.00)	.118(3.00)	.079(2.00)	—		34	.236(6.00)	.118(3.00)	.100(2.54)	No.8	Only 8Circuits
09	.118(3.00)	.118(3.00)	.100(2.54)	—		35	.236(6.00)	.118(3.00)	.100(2.54)	No.25,26	Only 32Circuits
10	.128(3.26)	.118(3.00)	.100(2.54)	—		36	.318(8.08)	.126(3.18)	.100(2.54)	—	
11	.284(7.22)	.118(3.00)	.100(2.54)	—		37	.236(6.00)	.118(3.00)	.100(2.54)	No.6	Only 10, 14Circuits
12	.224(5.70)	.118(3.00)	.100(2.54)	—		38	.531(13.50)	.118(3.00)	.100(2.54)	—	
13	.224(5.70)	.118(3.00)	.100(2.54)	No.10	Only 10Circuits	39	.126(3.20)	.059(1.50)	.100(2.54)	—	
14	.421(10.70)	.118(3.00)	.100(2.54)	—		40	.276(7.00)	.118(3.00)	.100(2.54)	—	
15	.512(13.00)	.118(3.00)	.100(2.54)	—		41	.394(10.00)	.118(3.00)	.100(2.54)	—	
16	.236(6.00)	.197(5.00)	.100(2.54)	—		42	.059(1.50)	.059(1.50)	.059(1.50)	—	
17	.078(2.00)	.078(2.00)	.100(2.54)	—		43	.512(12.00)	.118(3.00)	.100(2.54)	—	
18	.224(5.70)	.106(2.70)	.100(2.54)	—		44	.118(8.50)	.118(3.00)	.100(2.54)	—	
19	.374(9.50)	.118(3.00)	.100(2.54)	—		45	.157(4.00)	.086(2.20)	.100(2.54)	—	
20	.264(6.70)	.138(3.50)	.100(2.54)	—		46	.169(4.30)	.118(3.00)	.100(2.54)	—	
21	.315(8.00)	.138(3.50)	.100(2.54)	—		47	.430(10.92)	.118(3.00)	.100(2.54)	—	
22	.236(6.00)	.118(3.00)	.100(2.54)	No.5	Only 14Circuits						
23	.394(10.00)	.118(3.00)	.100(2.54)	No.5	Only 14Circuits						



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

CHECKED BY CHERRY

DRAWN BY KATE

DATE 01/JUN/16

DATE 01/JUN/16

DATE 01/JUN/16

PART NO. FPH25421-DXXSXXXXXXB

TITLE Board to Board(Pin Header) Pitch 2.54mm 180° Vertical(DIP)

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

ITEM NO. FPH25421

REV 0

SHEET NO. 2/4

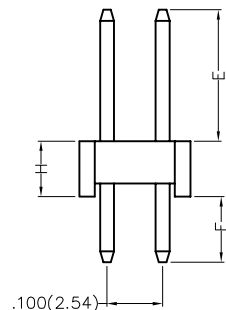


REV 0 SHEET NO. 2/4

REV	LOCATIONS	DESCRIPTION	DATE	REVISED	APPD

Table1



Serial number	Dimensions(in/mm)			Canceled Circuits	Note	Serial number	Dimensions(in/mm)			Canceled Circuits	Note
	E	F	H				E	F	H		
48	.157(4.00)	.118(3.00)	.079(2.00)	——		74	.197(5.00)	.217(5.50)	.100(2.54)	——	
49	.295(7.50)	.118(3.00)	.079(2.00)	——		75	.264(6.70)	.138(3.50)	.100(2.54)	No.5	Only 14Circuits
50	.354(9.00)	.118(3.00)	.100(2.54)	——							
51	.118(3.00)	.224(5.70)	.100(2.54)	——							
52	.177(4.50)	.138(3.50)	.100(2.54)	——							
53	.630(16.00)	.138(3.50)	.098(2.50)	——							
54	.610(15.50)	.118(3.00)	.100(2.54)	——							
55	.173(4.40)	.118(3.00)	.100(2.54)	——							
56	.320(8.13)	.110(2.79)	.100(2.54)	——							
57	.157(4.00)	.059(1.50)	.100(2.54)	——							
58	.230(5.85)	.100(2.54)	.100(2.54)	No.6	Only 14Circuits						
59	.236(6.00)	.118(3.00)	.100(2.54)	No.15~22	Only 34Circuits						
60	.236(6.00)	.118(3.00)	.100(2.54)	No.3,4,7,8,11~14	Only 20Circuits						
61	.512(13.00)	.138(3.50)	.100(2.54)	——							
62	.197(5.00)	.138(3.50)	.100(2.54)	——							
63	.492(12.50)	.118(3.00)	.100(2.54)	——							
64	.232(5.90)	.118(3.00)	.100(2.54)	——							
65	.217(5.50)	.138(3.50)	.100(2.54)	——							
66	.236(6.00)	.118(3.00)	.059(1.50)	——							
67	.039(1.00)	.157(4.00)	.039(1.00)	——							
68	.236(6.00)	.118(3.00)	.100(2.54)	No.8	Only 10Circuits						
69	.866(22.0)	.118(3.00)	.100(2.54)	——							
70	.240(6.10)	.059(1.50)	.100(2.54)	——							
71	.264(6.70)	.126(3.20)	.100(2.54)	——							
72	.240(6.10)	.098(2.50)	.100(2.54)	——							
73	.118(3.00)	.098(2.50)	.039(1.00)	——							



<p>THIRD ANGLE PROJECTION</p>	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY	DATE	PART NO.	ITEM NO.	<p>Leader Of Industry</p>
	X.±.012(0.30)	X'±5'	FRANK	01/JUN/16	FPH25421-DXXSXXXXXB	FPH25421	
	X.X±.008(0.20)	.X'±2'	CHECKED BY	DATE	TITLE		
	X.XX±.006(0.15)	.XX'±1'	CHERRY	01/JUN/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			KATE	01/JUN/16	REV 0	SHEET NO. 3/4

REV	LOCATIONS	DESCRIPTION	DATE	REVISED	APPD

Circuits (n)	Part No.	Dimensions(in/mm)		Circuits (n)	Part No.	Dimensions(in/mm)	
		A	B			A	B
2	FPH25421-D02SXXXXXXB	—	.100(2.54)	44	FPH25421-D44SXXXXXXB	2.100(53.34)	2.200(55.88)
4	FPH25421-D04SXXXXXXB	.100(2.54)	.200(5.08)	46	FPH25421-D46SXXXXXXB	2.200(55.88)	2.300(58.42)
6	FPH25421-D06SXXXXXXB	.200(5.08)	.300(7.62)	48	FPH25421-D48SXXXXXXB	2.300(58.42)	2.400(60.96)
8	FPH25421-D08SXXXXXXB	.300(7.62)	.400(10.16)	50	FPH25421-D50SXXXXXXB	2.400(60.96)	2.500(63.50)
10	FPH25421-D10SXXXXXXB	.400(10.16)	.500(12.70)	52	FPH25421-D52SXXXXXXB	2.500(63.50)	2.600(66.04)
12	FPH25421-D12SXXXXXXB	.500(12.70)	.600(15.24)	54	FPH25421-D54SXXXXXXB	2.600(66.04)	2.700(68.58)
14	FPH25421-D14SXXXXXXB	.600(15.24)	.700(17.78)	56	FPH25421-D56SXXXXXXB	2.700(68.58)	2.800(71.12)
16	FPH25421-D16SXXXXXXB	.700(17.78)	.800(20.32)	58	FPH25421-D58SXXXXXXB	2.800(71.12)	2.900(73.66)
18	FPH25421-D18SXXXXXXB	.800(20.32)	.900(22.86)	60	FPH25421-D60SXXXXXXB	2.900(73.66)	3.000(76.20)
20	FPH25421-D20SXXXXXXB	.900(22.86)	1.000(25.40)	62	FPH25421-D62SXXXXXXB	3.000(76.20)	3.100(78.74)
22	FPH25421-D22SXXXXXXB	1.000(25.40)	1.100(27.94)	64	FPH25421-D64SXXXXXXB	3.100(78.74)	3.200(81.28)
24	FPH25421-D24SXXXXXXB	1.100(27.94)	1.200(30.48)	66	FPH25421-D66SXXXXXXB	3.200(81.28)	3.300(83.82)
26	FPH25421-D26SXXXXXXB	1.200(30.48)	1.300(33.02)	68	FPH25421-D68SXXXXXXB	3.300(83.82)	3.400(86.36)
28	FPH25421-D28SXXXXXXB	1.300(33.02)	1.400(35.56)	70	FPH25421-D70SXXXXXXB	3.400(86.36)	3.500(88.90)
30	FPH25421-D30SXXXXXXB	1.400(35.56)	1.500(38.10)	72	FPH25421-D72SXXXXXXB	3.500(88.90)	3.600(91.44)
32	FPH25421-D32SXXXXXXB	1.500(38.10)	1.600(40.64)	74	FPH25421-D74SXXXXXXB	3.600(91.44)	3.700(93.98)
34	FPH25421-D34SXXXXXXB	1.600(40.64)	1.700(43.18)	76	FPH25421-D76SXXXXXXB	3.700(93.98)	3.800(96.52)
36	FPH25421-D36SXXXXXXB	1.700(43.18)	1.800(45.72)	78	FPH25421-D78SXXXXXXB	3.800(96.52)	3.900(99.06)
38	FPH25421-D38SXXXXXXB	1.800(45.72)	1.900(48.26)	80	FPH25421-D80SXXXXXXB	3.900(99.06)	4.000(101.60)
40	FPH25421-D40SXXXXXXB	1.900(48.26)	2.000(50.80)	90	FPH25421-D90SXXXXXXB	4.000(101.6)	4.100(104.14)
42	FPH25421-D42SXXXXXXB	2.000(50.80)	2.100(53.34)				

 THIRD ANGLE PROJECTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY	DATE	PART NO.	ITEM NO.	 Leader Of Industry
	X.±.012(0.30)	X'.±5'	FRANK	01/JUN/16	FPH25421-DXXSXXXXXXB	FPH25421	
	X.X±.008(0.20)	.X'±2'	CHECKED BY	DATE	TITLE		
	X.XX±.006(0.15)	.XX'±1'	CHERRY	01/JUN/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			KATE	01/JUN/16	REV 0	SHEET NO. 4/4