

REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD
1	△	Structure of Housing change	06/SEP/23	MATT	LEO

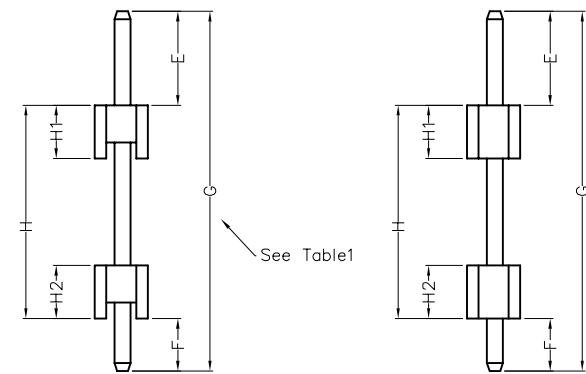
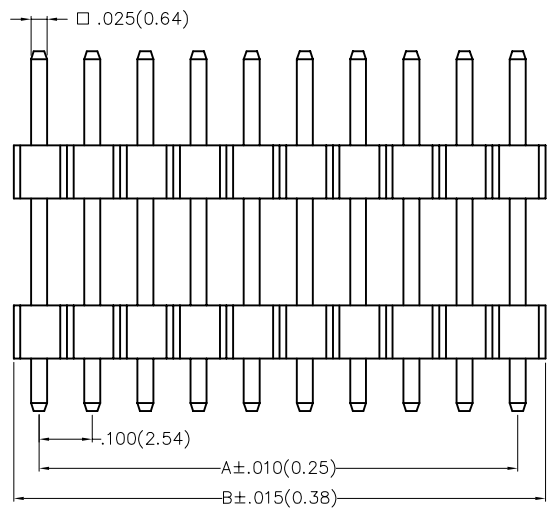
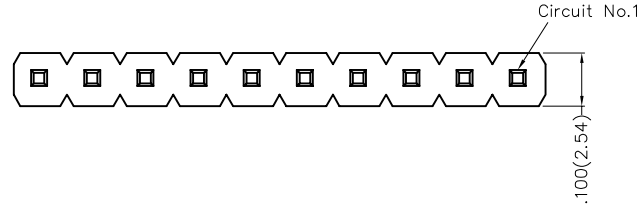
**SPECIFICATIONS**

**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, tin on tail

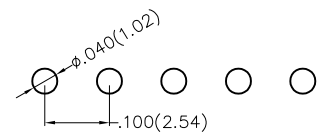


Only H1/H2=.039(1.00)

**Ordering Information**

FPH 254 E1 — S XX S X XX X XX B  
 1 2 3 4 5 6 7 8 9 10 11

1	Category	2	Series Number	3	Distinction No.	4	Row Option	5	Circuits	6	Entry Angle
	FPH—Pin Header		254—Pitch2.54mm		E1		S—Single Row		XX		S—180° Vertical
7	Plating	8	Thickness of Plating	9	Material—Resin	10	Size	11	Packaging		
	1—Gold plated 3—Selective gold in contact area, tin on tail		01—1μ" 15—15μ" Custom plate available		1—PBT 4—PA6T		01,02... —Serial number (See Table1) Custom length available		B—PE Bag		



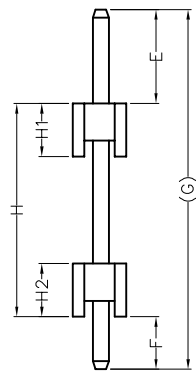
Recommended P.C.Board Layout

THIRD ANGLE PROJECTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY	DATE	PART NO.	ITEM NO.	TXGA Leader Of Industry	
DESIGN UNITS Inch (metric)	X±.012(0.30)	X:±5'	CHECKED BY	FRANK	08/JUN/16	FPH254E1-SXXSXXXXXXB	FPH254E1	REV 1	SHEET NO. 1/4
	X.X±.008(0.20)	.X'±2'		CHERRY	08/JUN/16	Board to Board(Pin Header) Pitch 2.54mm 180° Vertical(DIP)			
	SCALE 5:1	SIZE A4	X.XX±.006(0.15)	.XX'±1'	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		
		X.XXX±.004(0.10)	.XXX'±0.5'	KATE	08/JUN/16				

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)	.850(21.60)	.614(15.6)	.100(2.54)	.100(2.54)	—		21	.118(3.00)	.118(3.00)	.669(17.00)	.433(11.00)	.100(2.54)	.100(2.54)	—	
02	.118(3.00)	.118(3.00)	.457(11.60)	.220(5.60)	.100(2.54)	.100(2.54)	—		22	.138(3.50)	.138(3.50)	.846(21.50)	.571(14.50)	.100(2.54)	.100(2.54)	—	
03	.118(3.00)	.118(3.00)	1.063(27.0)	.827(21.0)	.100(2.54)	.100(2.54)	—		23	.249(6.33)	.120(3.05)	.625(15.88)	.260(6.50)	.100(2.54)	.100(2.54)	—	
04	.118(3.00)	.118(3.00)	.905(23.00)	.669(17.0)	.100(2.54)	.100(2.54)	—		24	.100(2.54)	.100(2.54)	.492(12.50)	.292(7.42)	.100(2.54)	.100(2.54)	—	
05	.118(3.00)	.118(3.00)	1.181(30.0)	.945(24.0)	.100(2.54)	.100(2.54)	—		25	.236(6.00)	.118(3.00)	.846(21.50)	.492(12.50)	.100(2.54)	.100(2.54)	—	
06	.118(3.00)	.118(3.00)	.669(17.0)	.433(11.00)	.100(2.54)	.100(2.54)	No.2,4,6	Only 7Circuits	26	.236(6.00)	.118(3.00)	1.201(30.5)	.492(12.50)	.100(2.54)	.100(2.54)	—	
07	.118(3.00)	.118(3.00)	.669(16.5)	.413(10.50)	.100(2.54)	.100(2.54)	—		27	.088(2.25)	.088(2.25)	.552(14.00)	.374(9.50)	.100(2.54)	.100(2.54)	—	
08	.118(3.00)	.118(3.00)	.433(11.0)	.197(5.00)	.100(2.54)	.100(2.54)	—		28	.157(4.00)	.110(2.80)	.567(14.00)	2.283(7.20)	.100(2.54)	.100(2.54)	—	
09	.118(3.00)	.118(3.00)	.551(14.0)	.315(8.00)	.100(2.54)	.100(2.54)	—		29	.125(3.20)	.125(3.20)	1.866(47.40)	1.614(41.00)	.100(2.54)	.100(2.54)	—	
10	.433(11.0)	.118(3.00)	1.772(45.0)	1.220(31.0)	.100(2.54)	.100(2.54)	—		30	.125(3.20)	.125(3.20)	1.787(45.40)	1.535(39.00)	.100(2.54)	.100(2.54)	—	
11	.087(2.20±0.1)	.087(2.20±0.1)	.054(12.80±0.05)	.331(8.40)	.100(2.54)	.100(2.54)	No.2,4,6,8,10,12,14,16,18	Only 19Circuits	31	.236(6.00)	.118(3.00)	.610(15.50)	.256(6.50)	.100(2.54)	.100(2.54)	—	
12	.197(5.00)	.118(3.00)	.827(21.00)	.512(13.00)	.100(2.54)	.100(2.54)	—		32	.236(6.00)	.118(3.00)	.728(18.50)	.374(9.50)	.100(2.54)	.100(2.54)	—	
13	.118(3.00)	.118(3.00)	.551(19.0)	.315(13.00)	.100(2.54)	.100(2.54)	—		33	.236(6.00)	.118(3.00)	.807(20.50)	.453(11.50)	.100(2.54)	.100(2.54)	—	
14	.118(3.00)	.236(6.00)	.551(14.0)	.197(5.00)	.100(2.54)	.100(2.54)	No.2	Only 3Circuits	34	.236(6.00)	.118(3.00)	1.004(25.50)	.650(16.50)	.100(2.54)	.100(2.54)	—	
15	.118(3.00)	.236(6.00)	.551(14.0)	.197(5.00)	.100(2.54)	.100(2.54)	—		35	.236(6.00)	.118(3.00)	1.122(28.50)	.768(19.50)	.100(2.54)	.100(2.54)	—	
16	.126(3.20)	.126(3.20)	.646(16.40)	.394(10.00)	.100(2.54)	.100(2.54)	—		36	.079(2.00)	.079(2.00)	.531(13.50)	.374(9.50)	.100(2.54)	.100(2.54)	—	
17	.126(3.20)	.126(3.20)	.646(16.40)	.394(10.00)	.100(2.54)	.100(2.54)	No.3	Only 6Circuits	37	.197(5.00)	.197(5.00)	1.122(28.50)	.728(18.50)	.100(2.54)	.100(2.54)	—	
18	.197(5.00)	.197(5.00)	.945(24.00)	.551(14.00)	.100(2.54)	.100(2.54)	—		38	.197(5.00)	.197(5.00)	1.516(38.50)	1.122(28.50)	.100(2.54)	.100(2.54)	—	
19	.098(2.50)	.098(2.50)	.869(22.08)	.672(17.08)	.100(2.54)	.100(2.54)	—		39	.098(2.50)	.098(2.50)	1.063(27.00)	.867(22.00)	.100(2.54)	.100(2.54)	—	
20	.098(2.50)	.098(2.50)	.906(23.00)	.709(18.00)	.100(2.54)	.100(2.54)	—		40	.394(10.00)	.256(6.50)	.866(22.00)	.217(5.50)	.100(2.54)	.100(2.54)	—	

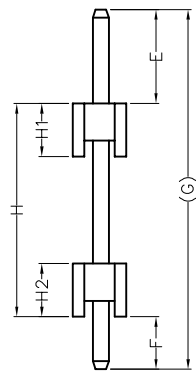


<p>THIRD ANGLE PROJECTION</p>	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY	DATE	PART NO.	ITEM NO.	<p>Leader Of Industry</p>
	X.±.012(0.30)	X'±5'	FRANK	08/JUN/16	FPH254E1-SXXSXXXXXXB	FPH254E1	
	X.X±.008(0.20)	.X'±2'	CHECKED BY	DATE	TITLE		
	X.XX±.006(0.15)	.XX'±1'	CHERRY	08/JUN/16	Board to Board(Pin Header) Pitch 2.54mm 180° Vertical(DIP)		
SCALE	SIZE	X.XXX±.004(0.10)	.XX'±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	08/JUN/16	REV 1	SHEET NO. 2/4

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		
41	.098(2.50)	.098(2.50)	1.142(29.00)	.945(24.00)	.100(2.54)	.100(2.54)	—		61	.236(6.00)	.118(3.00)	.472(12.00)	.118(3.00)	.060(1.50)	.060(1.50)	—	
42	.118(3.00)	.118(3.00)	.492(12.50)	.256(6.50)	.100(2.54)	.100(2.54)	—		62	.236(6.00)	.118(3.00)	.472(12.50)	.138(3.50)	.060(1.50)	.080(2.00)	—	
43	.236(6.00)	.118(3.00)	.512(13.00)	.157(4.00)	.100(2.54)	.100(2.54)	—		63	.098(2.50)	.098(2.50)	.397(10.08)	.200(5.08)	.100(2.54)	.100(2.54)	—	
44	.047(1.20)	.047(1.20)	.244(6.20)	.150(3.80)	.061(1.54)	.061(1.54)	—		64	.236(6.00)	.118(3.00)	.827(21.00)	.472(12.00)	.100(2.54)	.100(2.54)	—	
45	.118(3.00)	.157(4.00)	.512(13.00)	.236(6.00)	.100(2.54)	.100(2.54)	—		65	.118(3.00)	.118(3.00)	.354(9.00)	.118(3.00)	.060(1.50)	.060(1.50)	—	
46	.118(3.00)	.134(3.40)	.567(14.40)	.315(8.00)	.100(2.54)	.100(2.54)	—		66	.138(3.50)	.138(3.50)	.591(15.00)	.315(8.00)	.100(2.54)	.100(2.54)	—	
47	.118(3.00)	.118(3.00)	.374(9.50)	.138(3.50)	.039(1.00)	.098(2.50)	—		67	.126(3.20)	.126(3.20)	.449(11.40)	.197(5.00)	.098(2.50)	.098(2.50)	—	
48	.118(3.00)	.118(3.00)	.433(11.00)	.197(5.00)	.098(2.50)	.098(2.50)	—		68	.236(6.00)	.118(3.00)	1.181(30.00)	.827(21.00)	.100(2.54)	.100(2.54)	—	
49	.236(6.00)	.103(2.62)	.539(13.70)	.200(5.08)	.100(2.54)	.100(2.54)	—		69	.098(2.50)	.098(2.50)	.512(13.00)	.315(8.00)	.100(2.54)	.100(2.54)	—	
50	.138(3.50)	.138(3.50)	.669(17.00)	.394(10.00)	.100(2.54)	.100(2.54)	—		70	.118(3.00)	.118(3.00)	.965(24.50)	.728(18.50)	.100(2.54)	.100(2.54)	—	
51	.138(3.50)	.138(3.50)	.669(17.00)	.394(10.00)	.100(2.54)	.100(2.54)	No.3	Only 6Circuits									
52	.118(3.00)	.118(3.00)	1.122(28.50)	.886(22.50)	.100(2.54)	.100(2.54)	—										
53	.236(6.00)	.118(3.00)	.563(14.30)	.209(5.30)	.100(2.54)	.100(2.54)	—										
54	.169(4.30)	.077(1.95)	.356(9.05)	.110(2.80)	.039(1.00)	.039(1.00)	No.2,4,6	Only 7Circuits									
55	.169(4.30)	.077(1.95)	.356(9.05)	.110(2.80)	.039(1.00)	.039(1.00)	No.2,4,6,8,10	Only 11Circuits									
56	.197(5.00)	.118(3.00)	.748(19.00)	.433(11.00)	.100(2.54)	.100(2.54)	—										
57	.394(10.00)	.118(3.00)	1.614(41.00)	1.102(28.00)	.100(2.54)	.100(2.54)	—										
58	.118(3.00)	.157(4.00)	.760(19.30)	.484(12.30)	.100(2.54)	.100(2.54)	—										
59	.236(6.00)	.118(3.00)	.630(16.00)	.279(7.08)	.100(2.54)	.100(2.54)	—										
60	.177(4.50)	.177(4.50)	.846(21.50)	.492(12.50)	.100(2.54)	.100(2.54)	—										



 THIRD ANGLE PROJECTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY	DATE	PART NO.	ITEM NO.	 Leader Of Industry
	X.±.012(0.30)	X:±5'	FRANK	08/JUN/16	FPH254E1-SXXSXXXXXXB	FPH254E1	
DESIGN UNITS Inch (metric)	X.X±.008(0.20)	.X'±2'	CHECKED BY	DATE	TITLE		REV 1   SHEET NO. 3/4
SCALE 5:1	X.XX±.006(0.15)	.XX'±1'	CHERRY	08/JUN/16	Board to Board(Pin Header) Pitch 2.54mm 180° Vertical(DIP)		
SIZE A4	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		
			KATE	08/JUN/16			

REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD

Circuits (n)	Part No.	Dimensions(in/mm)		Circuits (n)	Part No.	Dimensions(in/mm)	
		A	B			A	B
1	FPH254E1-S01SXXXXXXB	—	.100(2.54)	21	FPH254E1-S21SXXXXXXB	2.000(50.80)	2.100(53.34)
2	FPH254E1-S02SXXXXXXB	.100(2.54)	.200(5.08)	22	FPH254E1-S22SXXXXXXB	2.100(53.34)	2.200(55.88)
3	FPH254E1-S03SXXXXXXB	.200(5.08)	.300(7.62)	23	FPH254E1-S23SXXXXXXB	2.200(55.88)	2.300(58.42)
4	FPH254E1-S04SXXXXXXB	.300(7.62)	.400(10.16)	24	FPH254E1-S24SXXXXXXB	2.300(58.42)	2.400(60.96)
5	FPH254E1-S05SXXXXXXB	.400(10.16)	.500(12.70)	25	FPH254E1-S25SXXXXXXB	2.400(60.96)	2.500(63.50)
6	FPH254E1-S06SXXXXXXB	.500(12.70)	.600(15.24)	26	FPH254E1-S26SXXXXXXB	2.500(63.50)	2.600(66.04)
7	FPH254E1-S07SXXXXXXB	.600(15.24)	.700(17.78)	27	FPH254E1-S27SXXXXXXB	2.600(66.04)	2.700(68.58)
8	FPH254E1-S08SXXXXXXB	.700(17.78)	.800(20.32)	28	FPH254E1-S28SXXXXXXB	2.700(68.58)	2.800(71.12)
9	FPH254E1-S09SXXXXXXB	.800(20.32)	.900(22.86)	29	FPH254E1-S29SXXXXXXB	2.800(71.12)	2.900(73.66)
10	FPH254E1-S10SXXXXXXB	.900(22.86)	1.000(25.40)	30	FPH254E1-S30SXXXXXXB	2.900(73.66)	3.000(76.20)
11	FPH254E1-S11SXXXXXXB	1.000(25.40)	1.100(27.94)	31	FPH254E1-S31SXXXXXXB	3.000(76.20)	3.100(78.74)
12	FPH254E1-S12SXXXXXXB	1.100(27.94)	1.200(30.48)	32	FPH254E1-S32SXXXXXXB	3.100(78.74)	3.200(81.28)
13	FPH254E1-S13SXXXXXXB	1.200(30.48)	1.300(33.02)	33	FPH254E1-S33SXXXXXXB	3.200(81.28)	3.300(83.82)
14	FPH254E1-S14SXXXXXXB	1.300(33.02)	1.400(35.56)	34	FPH254E1-S34SXXXXXXB	3.300(83.82)	3.400(86.36)
15	FPH254E1-S15SXXXXXXB	1.400(35.56)	1.500(38.10)	35	FPH254E1-S35SXXXXXXB	3.400(86.36)	3.500(88.90)
16	FPH254E1-S16SXXXXXXB	1.500(38.10)	1.600(40.64)	36	FPH254E1-S36SXXXXXXB	3.500(88.90)	3.600(91.44)
17	FPH254E1-S17SXXXXXXB	1.600(40.64)	1.700(43.18)	37	FPH254E1-S37SXXXXXXB	3.600(91.44)	3.700(93.98)
18	FPH254E1-S18SXXXXXXB	1.700(43.18)	1.800(45.72)	38	FPH254E1-S38SXXXXXXB	3.700(93.98)	3.800(96.52)
19	FPH254E1-S19SXXXXXXB	1.800(45.72)	1.900(48.26)	39	FPH254E1-S39SXXXXXXB	3.800(96.52)	3.900(99.06)
20	FPH254E1-S20SXXXXXXB	1.900(48.26)	2.000(50.80)	40	FPH254E1-S40SXXXXXXB	3.900(99.06)	4.000(101.60)

 THIRD ANGLE PROJECTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY FRANK	DATE 08/JUN/16	PART NO. FPH254E1-SXXSXXXXXXB	ITEM NO. FPH254E1	 Leader Of Industry		
	X.±.012(0.30)	X'.±5'	CHECKED BY CHERRY	DATE 08/JUN/16	TITLE Board to Board(Pin Header) Pitch 2.54mm 180° Vertical(DIP)			REV 1	SHEET NO. 4/4
	X.XX±.008(0.20)	.X'±2'	DRAWN BY KATE	DATE 08/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				
	X.XX±.006(0.15)	.XX'±1'							
SCALE 5:1	SIZE A4	X.XXX±.004(0.10)	.XXX'±0.5'						