

1 2 3 4 5 6 7 8

REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD

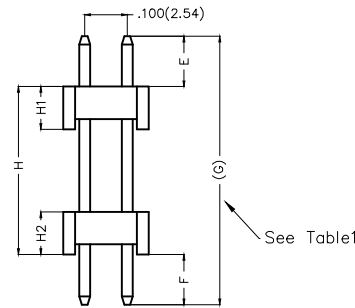
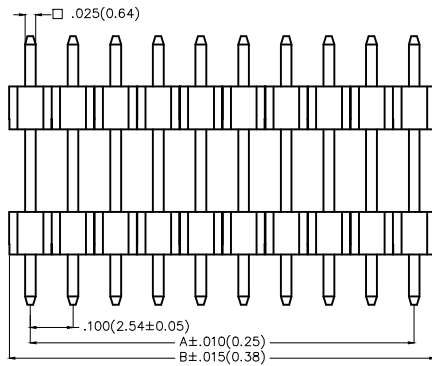
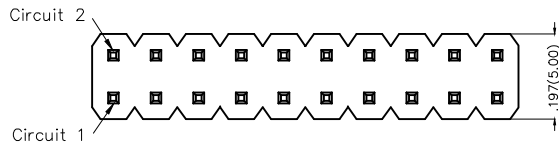
**SPECIFICATIONS**

**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**

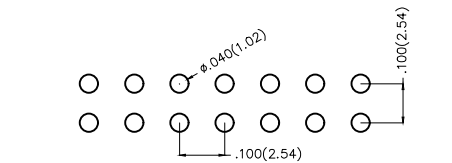
Housing: Glass Filled Polyester (UL 94V-0), Color: Black  
 Pin: Brass  
 Pin Plating: Gold plated/ Selective gold in contact area, tin on tail



**Ordering Information**

FPH 254 F1 — 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. 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, 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

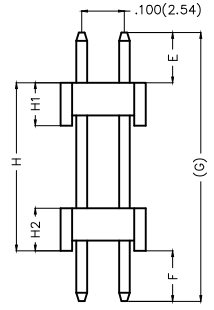
<p>THIRD ANGLE PROJECTION</p>	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY FRANK	DATE 13/JUL/16	PART NO. FPH254F1-DXXSXXXXXXB	ITEM NO. FPH254F1	<p>Leader Of Industry</p>
	DESIGN UNITS Inch (metric)	X.±.012(0.30) X.X±.008(0.20) X.XX±.006(0.15) X.XXX±.004(0.10)	X.'±5' .X'±2' .XX'±1' .XXX'±0.5'	CHECKED BY CHERRY	DATE 13/JUL/16	TITLE Board to Board(Pin Header) Pitch 2.54mm 180° Vertical(DIP)	
SCALE 5:1	SIZE A4	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		

1 2 3 4 5 6 7 8

1	2	3	4	5	6	7	8			
					REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD

Table1

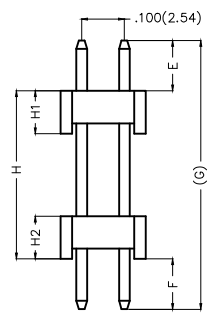
Serial number	Dimensions(in/mm)						Canceled Circuits	Note	Serial number	Dimensions(in/mm)						Canceled Circuits	Note
	E	F	(G)	H	H1	H2				E	F	(G)	H	H1	H2		
01	.118(3.00)	.118(3.00)	.669(17.00)	.433(11.00)	.100(2.54)	.100(2.54)	——		24	.236(6.00)	.118(3.00)	.984(25.00)	.630(16.00)	.100(2.54)	.100(2.54)	——	
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(12.0)	.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



 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		
	X.XX±.006(0.15)	.XX'±1'	CHERRY	13/JUL/16	Board to Board(Pin Header) Pitch 2.54mm 180° Vertical(DIP)	REV 0	
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	13/JUL/16		

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		
47	.630(16.00)	.118(3.00)	1.181(30.00)	.433(11.00)	.100(2.54)	.100(2.54)	——		70	.236(6.00)	.236(6.00)	2.244(57.00)	1.772(45.00)	.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	71	.236(6.00)	.118(3.00)	1.299(33.00)	.945(24.00)	.100(2.54)	.100(2.54)	——	
49	.236(6.00)	.118(3.00)	1.142(29.00)	.787(20.00)	.100(2.54)	.100(2.54)	——		72	.236(6.00)	.118(3.00)	.689(17.50)	.335(8.50)	.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)	——		73	.236(6.00)	.118(3.00)	.945(24.00)	.591(15.00)	.079(2.00)	.079(2.00)	——	
51	.256(6.50)	.102(2.60)	.909(23.10)	.551(14.00)	.100(2.54)	.100(2.54)	——		74	.276(7.00)	.118(3.00)	.669(17.00)	.276(7.00)	.079(2.00)	.079(2.00)	——	
52	.189(4.80)	.118(3.00)	.504(12.80)	.197(5.00)	.100(2.54)	.100(2.54)	——		75	.236(6.00)	.118(3.00)	.787(20.00)	.433(11.00)	.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)	——		76	.315(8.00)	.118(3.00)	1.063(27.00)	.630(16.00)	.100(2.54)	.100(2.54)	——	
54	.236(6.00)	.118(3.00)	.554(14.08)	.200(5.08)	.100(2.54)	.100(2.54)	——		77	.236(6.00)	.118(3.00)	.965(24.50)	.610(15.50)	.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	78	.276(7.00)	.276(7.00)	.827(21.00)	.276(7.00)	.100(2.54)	.100(2.54)	——	
56	.197(5.00)	.118(3.00)	.787(20.00)	.472(12.00)	.100(2.54)	.100(2.54)	——		79	.098(2.50)	.098(2.50)	.397(10.08)	.200(5.08)	.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)	——		80	.236(6.00)	.118(3.00)	1.378(35.00)	1.024(26.00)	.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)	——		81	.236(6.00)	.118(3.00)	.610(15.50)	.256(6.50)	.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)	——		82								
60	.197(5.00)	.118(3.00)	.984(25.00)	.669(17.00)	.100(2.54)	.100(2.54)	——		83	.236(6.00)	.118(3.00)	.728(18.50)	.374(9.50)	.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)	——		84	.236(6.00)	.079(2.00)	.748(19.00)	.433(11.00)	.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)	——		85	.236(6.00)	.118(3.00)	.807(20.50)	.453(11.50)	.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)	——		86	.217(5.50)	.118(3.00)	.571(14.50)	.236(6.00)	.100(2.54)	.100(2.54)	——	
64									87	.236(6.00)	.118(3.00)	1.181(30.00)	.827(21.00)	.100(2.54)	.100(2.54)	——	
65	.236(6.00)	.118(3.00)	2.244(57.00)	1.890(48.00)	.100(2.54)	.100(2.54)	——		88	.217(5.50)	.118(3.00)	.610(15.50)	.276(7.00)	.100(2.54)	.100(2.54)	——	
66	.236(6.00)	.118(3.00)	1.063(27.00)	.709(18.00)	.100(2.54)	.100(2.54)	——		89	.256(6.50)	.098(2.50)	.571(14.50)	.217(5.50)	.100(2.54)	.100(2.54)	——	
67	.276(7.00)	.118(3.00)	.709(18.00)	.315(8.00)	.100(2.54)	.100(2.54)	——		90	.118(3.00)	.118(3.00)	.965(24.50)	.728(18.50)	.100(2.54)	.100(2.54)	——	
68	.236(6.00)	.118(3.00)	.649(16.50)	.295(7.50)	.100(2.54)	.100(2.54)	——		91	.335(8.50)	.118(3.00)	.827(21.00)	.374(9.50)	.100(2.54)	.100(2.54)	——	
69	.236(6.00)	.079(2.00)	.846(21.50)	.531(13.50)	.100(2.54)	.100(2.54)	——		92	.118(3.00)	.118(3.00)	1.024(26.00)	.787(20.00)	.100(2.54)	.100(2.54)	——	

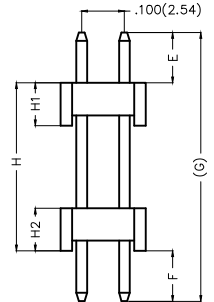


 THIRD ANGLE PROJECTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY FRANK	DATE 13/JUL/16	PART NO. FPH254F1-DXXSXXXXXXB	ITEM NO. FPH254F1	 Leader Of Industry		
	X.±.012(0.30)	X.±5'	CHECKED BY CHERRY	DATE 13/JUL/16	TITLE Board to Board(Pin Header) Pitch 2.54mm 180° Vertical(DIP)			REV 0	SHEET NO. 3/5
	X.X±.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				
	X.XX±.006(0.15)	.XX±1'							
SCALE 5:1	SIZE A4	X.XXX±.004(0.10)	.XXX±0.5'						

REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD

Table1

A	Serial number	Dimensions(in/mm)					Canceled Circuits	Note
		E	F	(G)	H	H1		
	93	.236(6.00)	.118(3.00)	1.142(29.0)	.787(20.0)	.100(2.54)	.100(2.54)	—
B								
C								
D								
E								



 <b>THIRD ANGLE PROJECTION</b>	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY FRANK	DATE 13/JUL/16	PART NO. FPH254F1-DXXSXXXXXXB	ITEM NO. FPH254F1	 <b>TXGA</b> Leader Of Industry
	DESIGN UNITS Inch (metric)	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)	
SCALE 5:1	SIZE A4	X.XX±.006(0.15)	.XX±1'	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 0	SHEET NO. 4/5

A  
B  
C  
D  
E  
F

A  
B  
C  
D  
E  
F

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

1 2 3 4 5 6 7 8

REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD

A

A

B

B

C

C

D

D



E

E

F

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)

 <b>THIRD ANGLE PROJECTION</b>	<b>GENERAL TOLERANCES (UNLESS SPECIFIED)</b>		<b>APPROVE BY</b> FRANK	<b>DATE</b> 13/JUL/16	<b>PART NO.</b> FPH254F1-DXXSXXXXXXB	<b>ITEM NO.</b> FPH254F1	 <b>TXGA</b> Leader Of Industry
	X.±.012(0.30)	X.±5'	<b>CHECKED BY</b> CHERRY	<b>DATE</b> 13/JUL/16	<b>TITLE</b> Board to Board(Pin Header) Pitch 2.54mm 180° Vertical(DIP)	<b>REV 0</b>	
	<b>DESIGN UNITS</b> Inch (metric)	X.X±.008(0.20)	X.±2'	<b>DRAWN BY</b> JACOB	<b>DATE</b> 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	
	<b>SCALE</b> 5:1	<b>SIZE</b> A4	X.XX±.006(0.15)	X.XX±1'	X.XXX±.004(0.10)	X.XX±0.5'	

1 2 3 4 5 6 7 8