

Dimensions(in/mm)	
H	H1+H2
.118(3.00)	.059(1.50)+.059(1.50)
.138(3.50)	.059(1.50)+.079(2.00)
≥.157(4.00)	.079(2.00)+.079(2.00)

REV	LOCATIONS	DESCRIPTION	DATE	REVSER	APPD

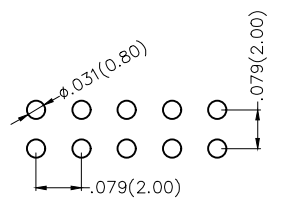
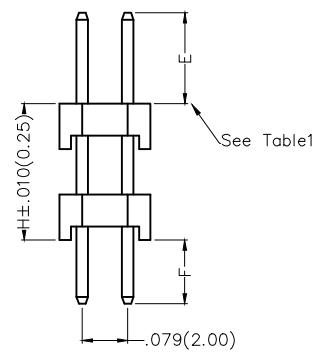
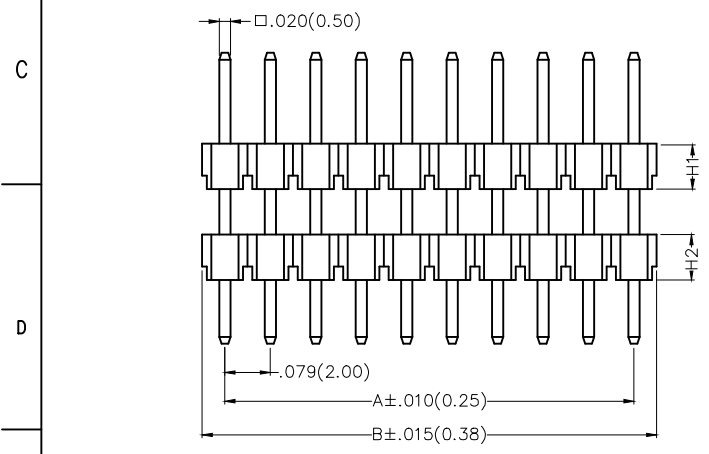
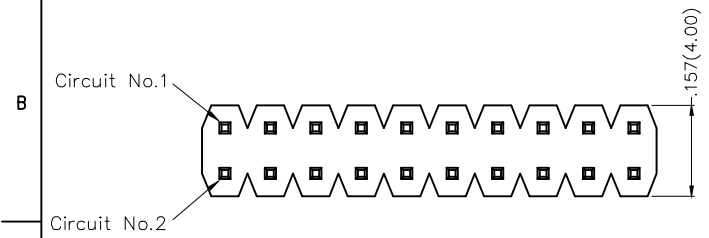
**SPECIFICATIONS**

**Electrical**

Current Rating: 2.0A 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/Tin plated/ Selective gold plated on contact area and 120μ" Min. matte tin plated on tails area



Recommended P.C.Board Layout

**Ordering Information**

FPH 200 48 - D XX S X XX X XX XX XX X  
1 2 3 4 5 6 7 8 9 10 11 12 13

1 Category FPH-Pin Header	2 Series Number 200-Pitch2.00mm	3 Distinction No. 48	4 Row Option D-Double Row	5 Circuits XX	6 Entry Angle S-180° Vertical	7 Plating 1-Gold plated 2-Tin plated 7-Selective gold plated on contact area and matte tin plated on tails area
8 Thickness of Plating 01-1μ" 15-15μ" Custom plate available	9 Material-Resin 1-PBT 4-PA6T	10 E Size 01,02...-Serial number (See Table1)	11 F Size 01,02...-Serial number (See Table1)	12 H Size 01,02...-Serial number (See Table1)	13 Packaging B-PE Bag M-Reel With CAP	

<p>THIRD ANGLE PROJECTION</p>	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY FRANK	DATE 23/DEC/19	PART NO. FPH20048-DXXSXXXXXXXXXX	ITEM NO. FPH20048	<p>Building Technology Cornerstone</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 23/DEC/19	TITLE Board to Board(Pin Header) Pitch 2.00mm 180° Vertical(DIP)		REV 0	SHEET NO. 1/3
	SCALE 5:1	SIZE A4	DRAWN BY ZOEY		DATE 23/DEC/19	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

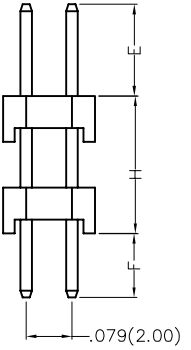
REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD

Table1

Serial number	Dimensions (in/mm) E	Serial number	Dimensions (in/mm) E
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)		

Serial number	Dimensions (in/mm) F	Serial number	Dimensions (in/mm) 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)		



Serial number	Dimensions (in/mm) H	Serial number	Dimensions (in/mm) H	Serial number	Dimensions (in/mm) H
01	.118(3.00)	19	.472(12.00)	37	.787(21.00)
02	.138(3.50)	20	.492(12.50)	38	.787(21.50)
03	.157(4.00)	21	.512(13.00)	39	.787(22.00)
04	.177(4.50)	22	.531(13.50)	40	.787(22.50)
05	.197(5.00)	23	.551(14.00)	41	.787(23.00)
06	.217(5.50)	24	.571(14.50)	42	.787(23.50)
07	.236(6.00)	25	.591(15.00)	43	.787(24.00)
08	.256(6.50)	26	.610(15.50)	44	.787(24.50)
09	.276(7.00)	27	.630(16.00)	45	.787(25.00)
10	.295(7.50)	28	.650(16.50)	46	.787(25.50)
11	.315(8.00)	29	.669(17.00)	47	.787(26.00)
12	.335(8.50)	30	.689(17.50)	48	.787(26.50)
13	.354(9.00)	31	.709(18.00)	49	.787(27.00)
14	.374(9.50)	32	.728(18.50)	50	.787(27.50)
15	.394(10.00)	33	.748(19.00)	51	.787(28.00)
16	.413(10.50)	34	.768(19.50)		
17	.433(11.00)	35	.787(20.00)		
18	.453(11.50)	36	.787(20.50)		



<p>THIRD ANGLE PROJECTION</p>	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY FRANK	DATE 23/DEC/19	PART NO. FPH20048-DXXSXXXXXXXXXX	ITEM NO. FPH20048	<p>Building Technology Cornerstone</p>	
	X.±.012(0.30)	X'±5'	CHECKED BY CHERRY	DATE 23/DEC/19	TITLE Board to Board(Pin Header) Pitch 2.00mm 180° Vertical(DIP)	REV 0		SHEET NO. 2/3
	DESIGN UNITS Inch (metric)	X.X±.008(0.20)	.X'±2'	DRAWN BY ZOEY	DATE 23/DEC/19	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		
	SCALE 5:1	SIZE A4	X.XX±.006(0.15)	.XX'±1'				

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	FPH20048-D02SXXXXXXXXXX	—	.079(2.00)	42	FPH20048-D42SXXXXXXXXXX	1.574(40.00)	1.654(42.00)
4	FPH20048-D04SXXXXXXXXXX	.079(2.00)	.157(4.00)	44	FPH20048-D44SXXXXXXXXXX	1.654(42.00)	1.732(44.00)
6	FPH20048-D06SXXXXXXXXXX	.157(4.00)	.236(6.00)	46	FPH20048-D46SXXXXXXXXXX	1.732(44.00)	1.811(46.00)
8	FPH20048-D08SXXXXXXXXXX	.236(6.00)	.315(8.00)	48	FPH20048-D48SXXXXXXXXXX	1.811(46.00)	1.890(48.00)
10	FPH20048-D10SXXXXXXXXXX	.315(8.00)	.394(10.00)	50	FPH20048-D50SXXXXXXXXXX	1.890(48.00)	1.969(50.00)
12	FPH20048-D12SXXXXXXXXXX	.394(10.00)	.472(12.00)	52	FPH20048-D52SXXXXXXXXXX	1.969(50.00)	2.047(52.00)
14	FPH20048-D14SXXXXXXXXXX	.472(12.00)	.551(14.00)	54	FPH20048-D54SXXXXXXXXXX	2.047(52.00)	2.126(54.00)
16	FPH20048-D16SXXXXXXXXXX	.551(14.00)	.630(16.00)	56	FPH20048-D56SXXXXXXXXXX	2.126(54.00)	2.205(56.00)
18	FPH20048-D18SXXXXXXXXXX	.630(16.00)	.709(18.00)	58	FPH20048-D58SXXXXXXXXXX	2.205(56.00)	2.283(58.00)
20	FPH20048-D20SXXXXXXXXXX	.709(18.00)	.787(20.00)	60	FPH20048-D60SXXXXXXXXXX	2.283(58.00)	2.362(60.00)
22	FPH20048-D22SXXXXXXXXXX	.787(20.00)	.866(22.00)	62	FPH20048-D62SXXXXXXXXXX	2.362(60.00)	2.441(62.00)
24	FPH20048-D24SXXXXXXXXXX	.866(22.00)	.945(24.00)	64	FPH20048-D64SXXXXXXXXXX	2.441(62.00)	2.520(64.00)
26	FPH20048-D26SXXXXXXXXXX	.945(24.00)	1.024(26.00)	66	FPH20048-D66SXXXXXXXXXX	2.520(64.00)	2.598(66.00)
28	FPH20048-D28SXXXXXXXXXX	1.024(26.00)	1.102(28.00)	68	FPH20048-D68SXXXXXXXXXX	2.598(66.00)	2.677(68.00)
30	FPH20048-D30SXXXXXXXXXX	1.102(28.00)	1.181(30.00)	70	FPH20048-D70SXXXXXXXXXX	2.677(68.00)	2.756(70.00)
32	FPH20048-D32SXXXXXXXXXX	1.181(30.00)	1.260(32.00)	72	FPH20048-D72SXXXXXXXXXX	2.756(70.00)	2.835(72.00)
34	FPH20048-D34SXXXXXXXXXX	1.260(32.00)	1.339(34.00)	74	FPH20048-D74SXXXXXXXXXX	2.835(72.00)	2.913(74.00)
36	FPH20048-D36SXXXXXXXXXX	1.339(34.00)	1.417(36.00)	76	FPH20048-D76SXXXXXXXXXX	2.913(74.00)	2.992(76.00)
38	FPH20048-D38SXXXXXXXXXX	1.417(36.00)	1.496(38.00)	78	FPH20048-D78SXXXXXXXXXX	2.992(76.00)	3.071(78.00)
40	FPH20048-D40SXXXXXXXXXX	1.496(38.00)	1.574(40.00)	80	FPH20048-D80SXXXXXXXXXX	3.071(78.00)	3.150(80.00)

 THIRD ANGLE PROJECTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY FRANK	DATE 23/DEC/19	PART NO. FPH20048-DXXSXXXXXXXXXX	ITEM NO. FPH20048	 Building Technology Cornerstone	
	X.±.012(0.30)	X'.±5'	CHECKED BY CHERRY	DATE 23/DEC/19	TITLE Board to Board(Pin Header) Pitch 2.00mm 180° Vertical(DIP)			REV 0
	X.XX±.008(0.20)	.X'±2'	DRAWN BY ZOEY	DATE 23/DEC/19	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'			SHEET NO. 3/3			
SCALE 5:1	SIZE A4	X.XXX±.004(0.10)	.XXX'±0.5'					