

Dimensions(in/mm)		
H	H1+H2	W
.118(3.00)	.059(1.50)+.059(1.50)	.134(3.40)
.138(3.50)	.059(1.50)+.059(1.50)	
.157(4.00)	.079(2.00)+.079(2.00)	
.177(4.50)	.079(2.00)+.098(2.50)	.118(3.00)
≥.197(5.00)	.098(2.50)+.098(2.50)	

REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD
1	△	Structure of Housing change	18/AUG/25	MATT	LEO

SPECIFICATIONS

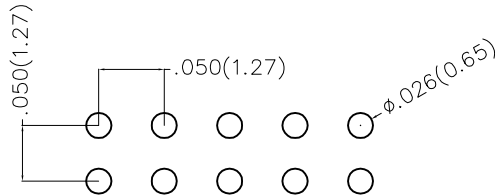
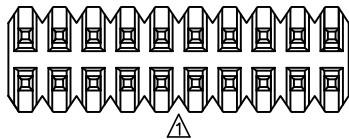
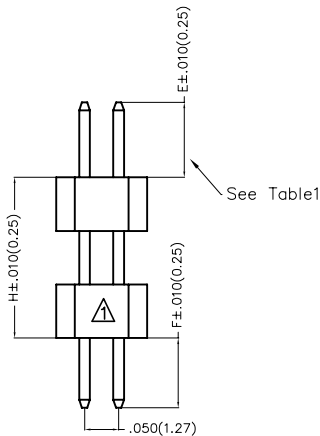
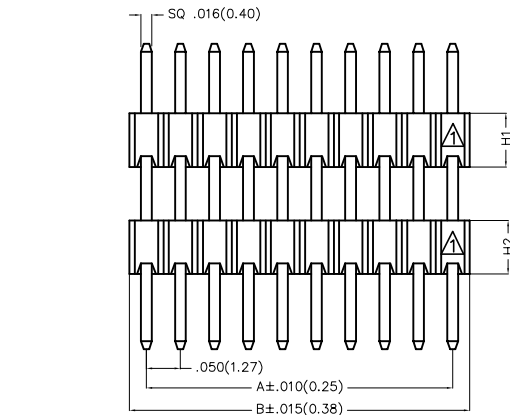
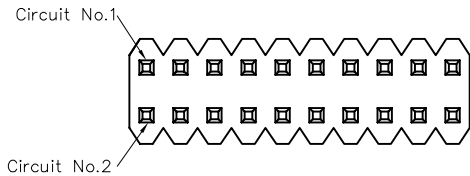
Electrical

Current Rating:1.0A 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 and Plating

Housing:Glass Filled Polyester (UL 94V-0), Color: Black
Pin:Brass

Pin Plating: Gold plated/ Selective gold plated on contact area
and 120μ" Min. matte tin plated on tails area

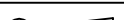
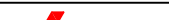


Recommended P.C.Board Layout

Ordering Information

FPH	127	31	—	D	XX	S	X	XX	4	XX	XX	XX	X
1	2	3		4	5	6	7	8	9	10	11	12	13

<u>Category</u> FPH—Pin Header	² <u>Series Number</u> 127—Pitch1.27mm	³ <u>Distinction No.</u> 31	⁴ <u>Row Option</u> D—Double Row	⁵ <u>Circuits</u> XX	⁶ <u>Entry Angle</u> S—180° Vertical	⁷ <u>Plating</u> 1—Gold plated 7—Selective gold plated on contact area and matte tin plated on tails area
⁸ <u>Thickness of Plating</u> 01—1μ" 15—15μ" Custom plate available	⁹ <u>Material—Resin</u> 4—PA6T	¹⁰ <u>E Size</u> 01,02...—Serial number (See Table1)	¹¹ <u>F Size</u> 01,02...—Serial number (See Table1)	¹² <u>H Size</u> 01,02...—Serial number (See Table1)	¹³ <u>Packaging</u> B—PE Bag M—Reel With Cap	

		GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY FRANK	DATE 17/DEC/19	PART NO. FPH12731—DXXSXXX4XXXXXX	ITEM NO. FPH12731		
THIRD ANGLE PROJECTION		X.±.012(0.30)	X'.±5"	CHECKED BY	DATE	TITLE Board to Board(Pin Header) Pitch 1.27mm 180° Vertical(DIP)		Building Technology Cornerstone	
DESIGN UNITS Inch (metric)		X.X±.008(0.20)	.X'±2"	CHERRY	17/DEC/19				
SCALE 5:1		X.XX±.006(0.15)		DRAWN BY ZOEY	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"				
						REV 1 SHEET NO. 1/3			

A						6		7		8		
						REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD	
B	Table1											
	Serial number	Dimensions (in/mm) E	Serial number	Dimensions (in/mm) E	Serial number	Dimensions (in/mm) F	Serial number	Dimensions (in/mm) F	Serial number	Dimensions (in/mm) H	Serial number	Dimensions (in/mm) H
	01	.059(1.50)	19	.236(6.00)	01	.059(1.50)	19	.236(6.00)	01	.118(3.00)	19	.472(12.00)
	02	.069(1.75)	20	.246(6.25)	02	.069(1.75)	20	.246(6.25)	02	.138(3.50)	20	.492(12.50)
	03	.079(2.00)	21	.256(6.50)	03	.079(2.00)	21	.256(6.50)	03	.157(4.00)	21	.512(13.00)
	04	.089(2.25)	22	.266(6.75)	04	.089(2.25)	22	.266(6.75)	04	.177(4.50)	22	.531(13.50)
	05	.098(2.50)	23	.276(7.00)	05	.098(2.50)	23	.276(7.00)	05	.197(5.00)	23	.551(14.00)
	06	.108(2.75)	24	.285(7.25)	06	.108(2.75)	24	.285(7.25)	06	.217(5.50)	24	.571(14.50)
	07	.118(3.00)	25	.295(7.50)	07	.118(3.00)	25	.295(7.50)	07	.236(6.00)	25	.591(15.00)
	08	.128(3.25)	26	.305(7.75)	08	.128(3.25)	26	.305(7.75)	08	.256(6.50)	26	.610(15.50)
	09	.138(3.50)	27	.315(8.00)	09	.138(3.50)	27	.315(8.00)	09	.276(7.00)	27	.630(16.00)
	10	.148(3.75)	28	.325(8.25)	10	.148(3.75)	28	.325(8.25)	10	.295(7.50)	28	.650(16.50)
	11	.157(4.00)	29	.335(8.50)	11	.157(4.00)	29	.335(8.50)	11	.315(8.00)	29	.669(17.00)
	12	.167(4.25)	30	.344(8.75)	12	.167(4.25)	30	.344(8.75)	12	.335(8.50)	30	.689(17.50)
	13	.177(4.50)	31	.354(9.00)	13	.177(4.50)	31	.354(9.00)	13	.354(9.00)	31	.709(18.00)
	14	.187(4.75)	32	.364(9.25)	14	.187(4.75)	32	.364(9.25)	14	.374(9.50)	32	.728(18.50)
	15	.197(5.00)	33	.374(9.50)	15	.197(5.00)	33	.374(9.50)	15	.394(10.00)	33	.748(19.00)
	16	.207(5.25)	34	.384(9.75)	16	.207(5.25)	34	.384(9.75)	16	.413(10.50)	34	.768(19.50)
17	.217(5.50)	35	.394(10.00)	17	.217(5.50)	35	.394(10.00)	17	.433(11.00)	35	.787(20.00)	
18	.226(5.75)			18	.226(5.75)			18	.453(11.50)			
C												
	D											
E												
	F											

THIRD ANGLE
PROJECTION

DESIGN UNITS
Inch (metric)

SCALE
5:1

SIZE
A4

GENERAL TOLERANCES
(UNLESS SPECIFIED)

X.±.012(0.30)

X.±.008(0.20)

X.XX±.006(0.15)

X.XXX±.004(0.10)

X'.±5"

X'.±2"

.XX'±1"

.XXX'±0.5"

APPROVE BY
FRANK

CHECKED BY
CHERRY

DRAWN BY
ZOEY

DATE
17/DEC/19

DATE
17/DEC/19

DATE
17/DEC/19

PART NO.
FPH12731-DXXSXXX4XXXXXXX

TITLE
Board to Board(Pin Header)
Pitch 1.27mm 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

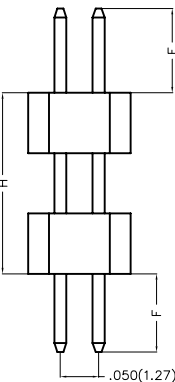
ITEM NO.
FPH12731

REV 1

TXGA

Building Technology Cornerstone

SHEET NO. 2/3



 THIRD ANGLE PROJECTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY FRANK	DATE 17/DEC/19	PART NO. FPH12731-DXXSXXX4XXXXXXX	ITEM NO. FPH12731	 Building Technology Cornerstone					
	X.±.012(0.30)	X'±5'	CHECKED BY CHERRY	DATE 17/DEC/19	TITLE Board to Board(Pin Header) Pitch 1.27mm 180° Vertical(DIP)							
	X.X±.008(0.20)	.X'±2'	DRAWN BY ZOEY	DATE 17/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'										
DESIGN UNITS Inch (metric)	X.XXX±.004(0.10)	.XXX'±0.5'										
SCALE 5:1	SIZE A4											

6		7		8	
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	FPH12731-D02SXXX4XXXXXXX	—	.050(1.27)	44	FPH12731-D44SXXX4XXXXXXX	1.050(26.67)	1.100(27.94)
4	FPH12731-D04SXXX4XXXXXXX	.050(1.27)	.100(2.54)	46	FPH12731-D46SXXX4XXXXXXX	1.100(27.94)	1.150(29.21)
6	FPH12731-D06SXXX4XXXXXXX	.100(2.54)	.150(3.81)	48	FPH12731-D48SXXX4XXXXXXX	1.150(29.21)	1.200(30.48)
8	FPH12731-D08SXXX4XXXXXXX	.150(3.81)	.200(5.08)	50	FPH12731-D50SXXX4XXXXXXX	1.200(30.48)	1.250(31.75)
10	FPH12731-D10SXXX4XXXXXXX	.200(5.08)	.250(6.35)	52	FPH12731-D52SXXX4XXXXXXX	1.250(31.75)	1.300(33.02)
12	FPH12731-D12SXXX4XXXXXXX	.250(6.35)	.300(7.62)	54	FPH12731-D54SXXX4XXXXXXX	1.300(33.02)	1.350(34.29)
14	FPH12731-D14SXXX4XXXXXXX	.300(7.62)	.350(8.89)	56	FPH12731-D56SXXX4XXXXXXX	1.350(34.29)	1.400(35.56)
16	FPH12731-D16SXXX4XXXXXXX	.350(8.89)	.400(10.16)	58	FPH12731-D58SXXX4XXXXXXX	1.400(35.56)	1.450(36.83)
18	FPH12731-D18SXXX4XXXXXXX	.400(10.16)	.450(11.43)	60	FPH12731-D60SXXX4XXXXXXX	1.450(36.83)	1.500(38.10)
20	FPH12731-D20SXXX4XXXXXXX	.450(11.43)	.500(12.70)	62	FPH12731-D62SXXX4XXXXXXX	1.500(38.10)	1.550(39.37)
22	FPH12731-D22SXXX4XXXXXXX	.500(12.70)	.550(13.97)	64	FPH12731-D64SXXX4XXXXXXX	1.550(39.37)	1.600(40.64)
24	FPH12731-D24SXXX4XXXXXXX	.550(13.97)	.600(15.24)	66	FPH12731-D66SXXX4XXXXXXX	1.600(40.64)	1.650(41.91)
26	FPH12731-D26SXXX4XXXXXXX	.600(15.24)	.650(16.51)	68	FPH12731-D68SXXX4XXXXXXX	1.650(41.91)	1.700(43.18)
28	FPH12731-D28SXXX4XXXXXXX	.650(16.51)	.700(17.78)	70	FPH12731-D70SXXX4XXXXXXX	1.700(43.18)	1.750(44.45)
30	FPH12731-D30SXXX4XXXXXXX	.700(17.78)	.750(19.05)	72	FPH12731-D72SXXX4XXXXXXX	1.750(44.45)	1.800(45.72)
32	FPH12731-D32SXXX4XXXXXXX	.750(19.05)	.800(20.32)	74	FPH12731-D74SXXX4XXXXXXX	1.800(45.72)	1.850(46.99)
34	FPH12731-D34SXXX4XXXXXXX	.800(20.32)	.850(21.59)	76	FPH12731-D76SXXX4XXXXXXX	1.850(46.99)	1.900(48.26)
36	FPH12731-D36SXXX4XXXXXXX	.850(21.59)	.900(22.86)	78	FPH12731-D78SXXX4XXXXXXX	1.900(48.26)	1.950(49.53)
38	FPH12731-D38SXXX4XXXXXXX	.900(22.86)	.950(24.13)	80	FPH12731-D80SXXX4XXXXXXX	1.950(49.53)	2.000(50.80)
40	FPH12731-D40SXXX4XXXXXXX	.950(24.13)	1.00(25.40)	100	FPH12731-D100SXXX4XXXXXXX	2.45(62.23)	2.500(63.50)
42	FPH12731-D42SXXX4XXXXXXX	1.000(25.40)	1.050(26.67)				

 THIRD ANGLE PROJECTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY FRANK	DATE 17/DEC/19	PART NO. FPH12731-DXXSXXX4XXXXXX	ITEM NO. FPH12731	 Building Technology Cornerstone	
		X.±.012(0.30)	X.±5°	CHECKED BY	DATE	TITLE			
DESIGN UNITS Inch (metric)		X.X±.008(0.20)	X.±2°	CHERRY	17/DEC/19	Board to Board(Pin Header) Pitch 1.27mm 180° Vertical(DIP)		REV 1	SHEET NO. 3/3
		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			
SCALE 5:1	SIZE A4	X.XXX±.004(0.10)	.XXX±0.5°	ZOEY	17/DEC/19				