

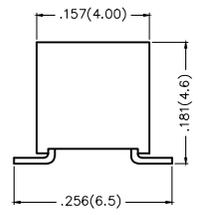
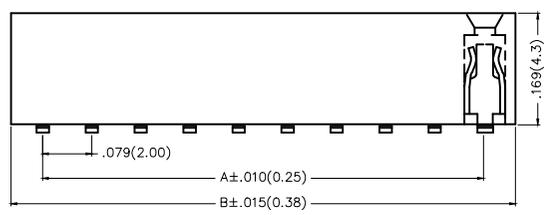
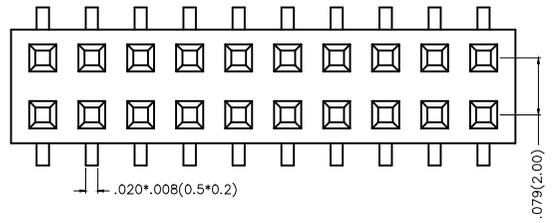
1 2 3 4 5 6 7 8

REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD

A
B
C
D
E
F

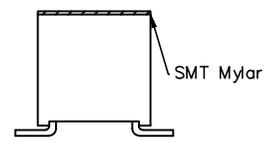
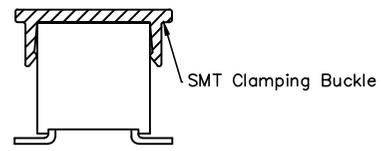
A
B
C
D
E
F

Electrical
 Current Rating: 2A AC(rms)/DC
 Voltage Rating: 250V AC(rms)/DC
 Contact Resistance: 20 mΩ Max
 Insulation Resistance: 1000 MΩ MIN
 Withstanding Voltage: 500V AC r.m.s
 Temperature Range-Operating: -40°C~+85°C
 Material and Plating
 Housing: PA6T(UL 94V-0)
 Contact Pin: Brass
 Plating: Gold Plated/Selective gold on contact area,
 tin on tail



Packing: M-Reel(With Cap)

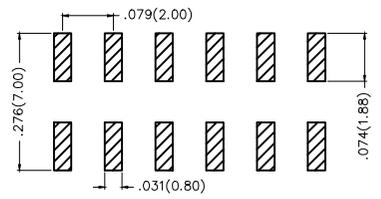
Packing: M1-Reel(With Mylar)



Ordering Information

FFH 200 12 - D XX S X XX 4 K6 XX
 1 2 3 4 5 6 7 8 9 10 11

1 Category FFH-Female Header	2 Series Number 200-Pitch2.0mm	3 Distinction No. 12	4 Row Option D-Double Row	5 Circuits XX	6 Entry Angle S-180° Vertical
7 Plating 1-Gold Plated 3-Selective gold on contact area, tin on tail	8 Thickness of Plating 00-Gold Flash 05-5μ" Custom plate available	9 Material-Resin 4-PA6T	10 Color-Resin K6-Black	11 Packaging M-Reel(With Cap) M1-Reel(With Mylar) K-Tray	



Recommended P.C.Board Layout

THIRD ANGLE PROJECTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY FRANK	DATE 23/JUL/13	PART NO. FFH20012-DXXSXX4K6XX	ITEM NO. FFH20012	 Leader Of Industry
	DESIGN UNITS Inch (metric)	X.±.012(0.30) X.X±.010(0.25) X.XX±.008(0.20) X.XXX±.004(0.10)	X'±5' .X'±2' .XX'±1' .XXX'±0.5'	CHECKED BY CHERRY	DATE 23/JUL/13	TITLE Board to Board (Female Header) Pitch 2.0mm 180° Vertical (SMT)	
SCALE 5:1	SIZE A4	DRAWN BY JACOB		DATE 23/JUL/13	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

REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD

Circuits (n)	Part No.	Dimensions(in/mm)		Circuits (n)	Part No.	Dimensions(in/mm)	
		A	B			A	B
4	FFH20012-D04SXXX4K6XX	.079(2.00)	.177(4.50)	44	FFH20012-D44SXXX4K6XX	1.654(42.00)	1.752(44.50)
6	FFH20012-D06SXXX4K6XX	.157(4.00)	.256(6.50)	46	FFH20012-D46SXXX4K6XX	1.732(44.00)	1.831(46.50)
8	FFH20012-D08SXXX4K6XX	.236(6.00)	.335(8.50)	48	FFH20012-D48SXXX4K6XX	1.811(46.00)	1.909(48.50)
10	FFH20012-D10SXXX4K6XX	.315(8.00)	.413(10.50)	50	FFH20012-D50SXXX4K6XX	1.890(48.00)	1.988(50.50)
12	FFH20012-D12SXXX4K6XX	.394(10.00)	.492(12.50)	52	FFH20012-D52SXXX4K6XX	1.969(50.00)	2.067(52.50)
14	FFH20012-D14SXXX4K6XX	.472(12.00)	.571(14.50)	54	FFH20012-D54SXXX4K6XX	2.047(52.00)	2.146(54.50)
16	FFH20012-D16SXXX4K6XX	.551(14.00)	.650(16.50)	56	FFH20012-D56SXXX4K6XX	2.126(54.00)	2.224(56.50)
18	FFH20012-D18SXXX4K6XX	.630(16.00)	.728(18.50)	58	FFH20012-D58SXXX4K6XX	2.205(56.00)	2.303(58.50)
20	FFH20012-D20SXXX4K6XX	.709(18.00)	.807(20.50)	60	FFH20012-D60SXXX4K6XX	2.283(58.00)	2.382(60.50)
22	FFH20012-D22SXXX4K6XX	.787(20.00)	.886(22.50)	62	FFH20012-D62SXXX4K6XX	2.362(60.00)	2.460(62.50)
24	FFH20012-D24SXXX4K6XX	.866(22.00)	.965(24.50)	64	FFH20012-D64SXXX4K6XX	2.441(62.00)	2.539(64.50)
26	FFH20012-D26SXXX4K6XX	.845(24.00)	1.043(26.50)	66	FFH20012-D66SXXX4K6XX	2.520(64.00)	2.618(66.50)
28	FFH20012-D28SXXX4K6XX	1.024(26.00)	1.122(28.50)	68	FFH20012-D68SXXX4K6XX	2.598(66.00)	2.697(68.50)
30	FFH20012-D30SXXX4K6XX	1.102(28.00)	1.201(30.50)	70	FFH20012-D70SXXX4K6XX	2.677(68.00)	2.776(70.50)
32	FFH20012-D32SXXX4K6XX	1.181(30.00)	1.280(32.50)	72	FFH20012-D72SXXX4K6XX	2.756(70.00)	2.854(72.50)
34	FFH20012-D34SXXX4K6XX	1.260(32.00)	1.358(34.50)	74	FFH20012-D74SXXX4K6XX	2.835(72.00)	2.933(74.50)
36	FFH20012-D36SXXX4K6XX	1.339(34.00)	1.437(36.50)	76	FFH20012-D76SXXX4K6XX	2.913(74.00)	3.012(76.50)
38	FFH20012-D38SXXX4K6XX	1.417(36.00)	1.516(38.50)	78	FFH20012-D78SXXX4K6XX	2.992(76.00)	3.091(78.50)
40	FFH20012-D40SXXX4K6XX	1.496(38.00)	1.594(40.50)	80	FFH20012-D80SXXX4K6XX	3.071(78.00)	3.169(80.50)
42	FFH20012-D42SXXX4K6XX	1.575(40.00)	1.673(42.50)				

 THIRD ANGLE PROJECTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY FRANK	DATE 23/JUL/13	PART NO. FFH20012-DXXSXXX4K6XX	ITEM NO. FFH20012	 Leader Of Industry	
	X.±.012(0.30)	X.±5'	CHECKED BY CHERRY	DATE 23/JUL/13	TITLE Board to Board (Female Header) Pitch 2.00mm 180° Vertical (SMT)			REV 0
	DESIGN UNITS Inch (metric)	X.X±.010(0.25)	.X'±2'	DRAWN BY JACOB	DATE 23/JUL/13	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±.008(0.20)	.XX'±1'				

1 2 3 4 5 6 7 8

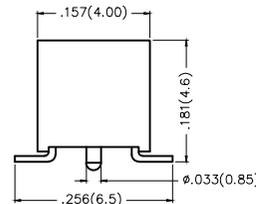
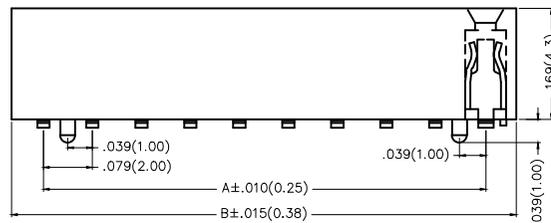
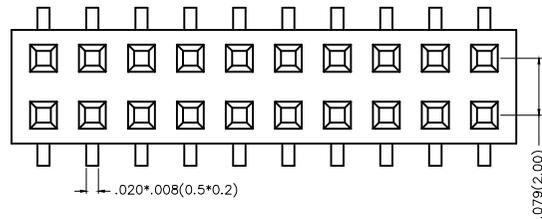
REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD
1	△	Part No. FFH20015 Change to FFH20012A	02/SEP/15	CHERRY	FRANK

Electrical

Current Rating: 2A AC(rms)/DC
 Voltage Rating: 250V AC(rms)/DC
 Contact Resistance: 20 mΩ Max
 Insulation Resistance: 1000 MΩ Min
 Withstanding Voltage: 500V AC r.m.s
 Temperature Range—Operating: -40°C~+85°C

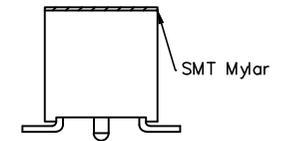
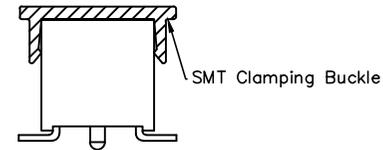
Material and Plating

Housing: PA6T(UL 94V-0)
 Contact Pin: Brass
 Plating: Gold Plated/Selective gold on contact area,
 tin on tail



Packing: M—Reel(With Cap)

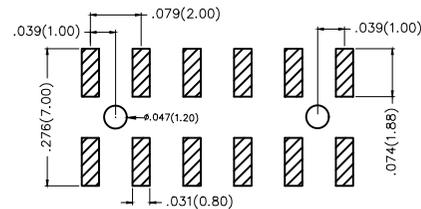
Packing: M1—Reel(With Mylar)



Ordering Information

FFH 200 12 — D XX S X XX 4 K6 XX A
 1 2 3 4 5 6 7 8 9 10 11 12

1 Category FFH—Female Header	2 Series Number 200—Pitch 2.0mm	3 Distinction No. 12	4 Row Option D—Double Row	5 Circuits XX	6 Entry Angle S—180° Vertical
7 Plating 1—Gold Plated 3—Selective gold on contact area, tin on tail	8 Thickness of Plating 00—Gold Flash 05—5μ" Custom plate available	9 Material—Resin 4—PA6T	10 Color—Resin K6—Black	11 Packaging M—Reel(With Cap) M1—Reel(With Mylar) K—Tray	12 Type A—With Position



Recommended P.C.Board Layout

THIRD ANGLE PROJECTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY FRANK	DATE 23/JUL/13	PART NO. △ FFH20012-DXXSXXX4K6XXA	ITEM NO. FFH20012A	 Leader Of Industry
	DESIGN UNITS Inch (metric)	X.±.012(0.30) X.X±.010(0.25) X.XX±.008(0.20) X.XXX±.004(0.10)	X'±5" .X'±2" .XX'±1" .XXX'±0.5"	CHECKED BY CHERRY	DATE 23/JUL/13	TITLE Board to Board (Female Header) Pitch 2.0mm 180° Vertical (SMT)	
SCALE 5:1	SIZE A4		DRAWN BY JACOB	DATE 23/JUL/13	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

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REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD

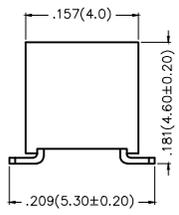
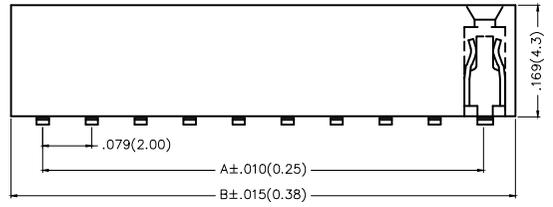
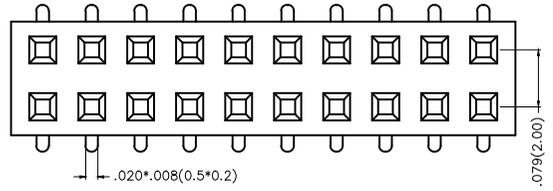
Circuits (n)	Part No.	Dimensions(in/mm)		Circuits (n)	Part No.	Dimensions(in/mm)	
		A	B			A	B
6	FFH20012-D06SXXX4K6XXA	.157(4.00)	.256(6.50)	44	FFH20012-D44SXXX4K6XXA	1.654(42.00)	1.752(44.50)
8	FFH20012-D08SXXX4K6XXA	.236(6.00)	.335(8.50)	46	FFH20012-D46SXXX4K6XXA	1.732(44.00)	1.831(46.50)
10	FFH20012-D10SXXX4K6XXA	.315(8.00)	.413(10.50)	48	FFH20012-D48SXXX4K6XXA	1.811(46.00)	1.909(48.50)
12	FFH20012-D12SXXX4K6XXA	.394(10.00)	.492(12.50)	50	FFH20012-D50SXXX4K6XXA	1.890(48.00)	1.988(50.50)
14	FFH20012-D14SXXX4K6XXA	.472(12.00)	.571(14.50)	52	FFH20012-D52SXXX4K6XXA	1.969(50.00)	2.067(52.50)
16	FFH20012-D16SXXX4K6XXA	.551(14.00)	.650(16.50)	54	FFH20012-D54SXXX4K6XXA	2.047(52.00)	2.146(54.50)
18	FFH20012-D18SXXX4K6XXA	.630(16.00)	.728(18.50)	56	FFH20012-D56SXXX4K6XXA	2.126(54.00)	2.224(56.50)
20	FFH20012-D20SXXX4K6XXA	.709(18.00)	.807(20.50)	58	FFH20012-D58SXXX4K6XXA	2.205(56.00)	2.303(58.50)
22	FFH20012-D22SXXX4K6XXA	.787(20.00)	.886(22.50)	60	FFH20012-D60SXXX4K6XXA	2.283(58.00)	2.382(60.50)
24	FFH20012-D24SXXX4K6XXA	.866(22.00)	.965(24.50)	62	FFH20012-D62SXXX4K6XXA	2.362(60.00)	2.460(62.50)
26	FFH20012-D26SXXX4K6XXA	.845(24.00)	1.043(26.50)	64	FFH20012-D64SXXX4K6XXA	2.441(62.00)	2.539(64.50)
28	FFH20012-D28SXXX4K6XXA	1.024(26.00)	1.122(28.50)	66	FFH20012-D66SXXX4K6XXA	2.520(64.00)	2.618(66.50)
30	FFH20012-D30SXXX4K6XXA	1.102(28.00)	1.201(30.50)	68	FFH20012-D68SXXX4K6XXA	2.598(66.00)	2.697(68.50)
32	FFH20012-D32SXXX4K6XXA	1.181(30.00)	1.280(32.50)	70	FFH20012-D70SXXX4K6XXA	2.677(68.00)	2.776(70.50)
34	FFH20012-D34SXXX4K6XXA	1.260(32.00)	1.358(34.50)	72	FFH20012-D72SXXX4K6XXA	2.756(70.00)	2.854(72.50)
36	FFH20012-D36SXXX4K6XXA	1.339(34.00)	1.437(36.50)	74	FFH20012-D74SXXX4K6XXA	2.835(72.00)	2.933(74.50)
38	FFH20012-D38SXXX4K6XXA	1.417(36.00)	1.516(38.50)	76	FFH20012-D76SXXX4K6XXA	2.913(74.00)	3.012(76.50)
40	FFH20012-D40SXXX4K6XXA	1.496(38.00)	1.594(40.50)	78	FFH20012-D78SXXX4K6XXA	2.992(76.00)	3.091(78.50)
42	FFH20012-D42SXXX4K6XXA	1.575(40.00)	1.673(42.50)	80	FFH20012-D80SXXX4K6XXA	3.071(78.00)	3.169(80.50)

 THIRD ANGLE PROJECTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY FRANK	DATE 23/JUL/13	PART NO. FFH20012-DXXSXXX4K6XXA	ITEM NO. FFH20012A	 Leader Of Industry	
	DESIGN UNITS Inch (metric)	X.±.012(0.30) X.±5'	CHECKED BY CHERRY	DATE 23/JUL/13	TITLE Board to Board (Female Header) Pitch 2.00mm 180° Vertical (SMT)			REV 1 SHEET NO. 2/2
	SCALE 5:1	SIZE A4	X.XX±.008(0.20) .XX'±1'	DRAWN BY JACOB	DATE 23/JUL/13	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

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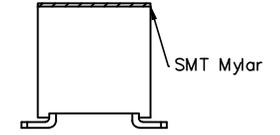
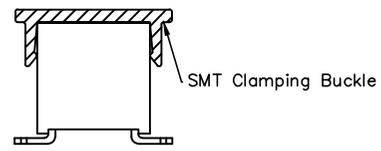
REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD

Electrical
 Current Rating: 2A AC(rms)/DC
 Voltage Rating: 250V AC(rms)/DC
 Contact Resistance: 20 mΩ Max
 Insulation Resistance: 1000 MΩ MIN
 Withstanding Voltage: 500V AC r.m.s
 Temperature Range-Operating: -40°C~+85°C
 Material and Plating
 Housing: PA6T(UL 94V-0)
 Contact Pin: Brass
 Plating: Gold Plated/Selective gold on contact area,
 tin on tail



Packing: M-Reel(With Cap)

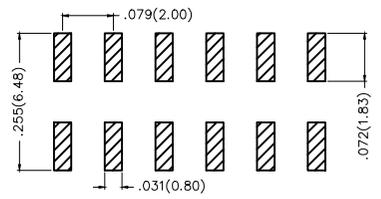
Packing: M1-Reel(With Mylar)



Ordering Information

FFH 200 12 - D XX S X XX 4 K6 XX B
 1 2 3 4 5 6 7 8 9 10 11 12

1 Category FFH-Female Header	2 Series Number 200-Pitch2.0mm	3 Distinction No. 12	4 Row Option D-Double Row	5 Circuits XX	6 Entry Angle S-180° Vertical
7 Plating 1-Gold Plated 3-Selective gold on contact area, tin on tail	8 Thickness of Plating 00-Gold Flash 05-5μ" Custom plate available	9 Material-Resin 4-PA6T	10 Color-Resin K6-Black	11 Packaging M-Reel(With Cap) M1-Reel(With Mylar) K-Tray	12 Type B-Type B



Recommended P.C.Board Layout

THIRD ANGLE PROJECTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY FRANK	DATE 23/JUL/13	PART NO. FFH20012-DXXSXX4K6XXB	ITEM NO. FFH20012	 Leader Of Industry
	DESIGN UNITS Inch (metric)	X.±.012(0.30) X.X±.010(0.22) X.XX±.008(0.20) X.XXX±.004(0.10)	X'±5" .X'±2" .XX'±1" .XXX'±0.5'	CHECKED BY CHERRY	DATE 23/JUL/13	TITLE Board to Board (Female Header) Pitch 2.0mm 180° Vertical (SMT)	
SCALE 5:1	SIZE A4		DRAWN BY JACOB	DATE 23/JUL/13	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

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REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD

Circuits (n)	Part No.	Dimensions(in/mm)		Circuits (n)	Part No.	Dimensions(in/mm)	
		A	B			A	B
6	FFH20012-D06SXXX4K6XXB	.157(4.00)	.256(6.50)	44	FFH20012-D44SXXX4K6XXB	1.654(42.00)	1.752(44.50)
8	FFH20012-D08SXXX4K6XXB	.236(6.00)	.335(8.50)	46	FFH20012-D46SXXX4K6XXB	1.732(44.00)	1.831(46.50)
10	FFH20012-D10SXXX4K6XXB	.315(8.00)	.413(10.50)	48	FFH20012-D48SXXX4K6XXB	1.811(46.00)	1.909(48.50)
12	FFH20012-D12SXXX4K6XXB	.394(10.00)	.492(12.50)	50	FFH20012-D50SXXX4K6XXB	1.890(48.00)	1.988(50.50)
14	FFH20012-D14SXXX4K6XXB	.472(12.00)	.571(14.50)	52	FFH20012-D52SXXX4K6XXB	1.969(50.00)	2.067(52.50)
16	FFH20012-D16SXXX4K6XXB	.551(14.00)	.650(16.50)	54	FFH20012-D54SXXX4K6XXB	2.047(52.00)	2.146(54.50)
18	FFH20012-D18SXXX4K6XXB	.630(16.00)	.728(18.50)	56	FFH20012-D56SXXX4K6XXB	2.126(54.00)	2.224(56.50)
20	FFH20012-D20SXXX4K6XXB	.709(18.00)	.807(20.50)	58	FFH20012-D58SXXX4K6XXB	2.205(56.00)	2.303(58.50)
22	FFH20012-D22SXXX4K6XXB	.787(20.00)	.886(22.50)	60	FFH20012-D60SXXX4K6XXB	2.283(58.00)	2.382(60.50)
24	FFH20012-D24SXXX4K6XXB	.866(22.00)	.965(24.50)	62	FFH20012-D62SXXX4K6XXB	2.362(60.00)	2.460(62.50)
26	FFH20012-D26SXXX4K6XXB	.845(24.00)	1.043(26.50)	64	FFH20012-D64SXXX4K6XXB	2.441(62.00)	2.539(64.50)
28	FFH20012-D28SXXX4K6XXB	1.024(26.00)	1.122(28.50)	66	FFH20012-D66SXXX4K6XXB	2.520(64.00)	2.618(66.50)
30	FFH20012-D30SXXX4K6XXB	1.102(28.00)	1.201(30.50)	68	FFH20012-D68SXXX4K6XXB	2.598(66.00)	2.697(68.50)
32	FFH20012-D32SXXX4K6XXB	1.181(30.00)	1.280(32.50)	70	FFH20012-D70SXXX4K6XXB	2.677(68.00)	2.776(70.50)
34	FFH20012-D34SXXX4K6XXB	1.260(32.00)	1.358(34.50)	72	FFH20012-D72SXXX4K6XXB	2.756(70.00)	2.854(72.50)
36	FFH20012-D36SXXX4K6XXB	1.339(34.00)	1.437(36.50)	74	FFH20012-D74SXXX4K6XXB	2.835(72.00)	2.933(74.50)
38	FFH20012-D38SXXX4K6XXB	1.417(36.00)	1.516(38.50)	76	FFH20012-D76SXXX4K6XXB	2.913(74.00)	3.012(76.50)
40	FFH20012-D40SXXX4K6XXB	1.496(38.00)	1.594(40.50)	78	FFH20012-D78SXXX4K6XXB	2.992(76.00)	3.091(78.50)
42	FFH20012-D42SXXX4K6XXB	1.575(40.00)	1.673(42.50)	80	FFH20012-D80SXXX4K6XXB	3.071(78.00)	3.169(80.50)

 THIRD ANGLE PROJECTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY FRANK	DATE 23/JUL/13	PART NO. FFH20012-DXXSXXX4K6XXB	ITEM NO. FFH20012	 Leader Of Industry	
	X.±.012(0.30)	X.±5'	CHECKED BY CHERRY	DATE 23/JUL/13	TITLE Board to Board (Female Header) Pitch 2.00mm 180° Vertical (SMT)			REV 0
	DESIGN UNITS Inch (metric)	X.X±.010(0.25)	.X'±2'	DRAWN BY JACOB	DATE 23/JUL/13	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±.008(0.20)	.XX'±1'				