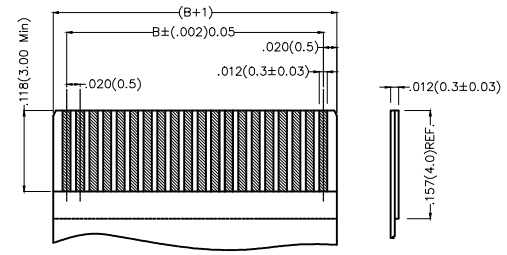
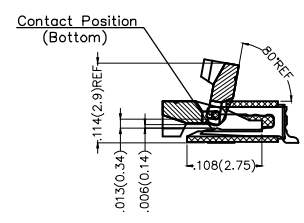
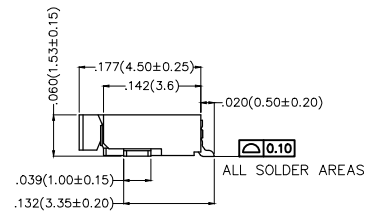
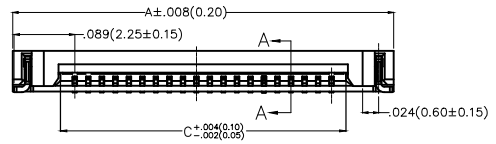
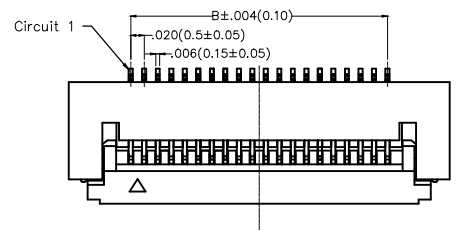


REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD

**SPECIFICATIONS**

**Electrical**  
 Current Rating: 0.5A AC(rms)/DC  
 Voltage Rating: 50V AC(rms)/DC  
 Contact Resistance: 20 mΩ Max  
 Insulation Resistance: 500 MΩ MIN  
 Withstanding Voltage: 200V AC r.m.s  
 Temperature Range—Operating: -25°C~+85°C

**Material and Plating**  
 Housing: PA6T UL 94V-0  
 Actuator: PA6T UL 94V-0  
 Contact: Phosphor Bronze/ Tin Plated  
 Stopper: Phosphor Bronze/ Tin Plated



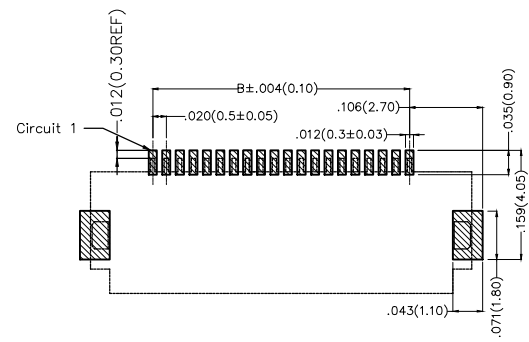
Circuits (n)	Part No.	Dimensions(in./mm)		
		A	B	C
4	FFC05020-04SBB124W5M	.240(6.10)	.059(1.50)	.101(2.57)
5	FFC05020-05SBB124W5M	.260(6.60)	.079(2.00)	.121(3.07)
6	FFC05020-06SBB124W5M	.280(7.10)	.098(2.50)	.141(3.57)
7	FFC05020-07SBB124W5M	.299(7.60)	.118(3.00)	.160(4.07)
8	FFC05020-08SBB124W5M	.319(8.10)	.138(3.50)	.180(4.57)
9	FFC05020-09SBB124W5M	.339(8.60)	.157(4.00)	.200(5.07)
10	FFC05020-10SBB124W5M	.358(9.10)	.177(4.50)	.219(5.57)
11	FFC05020-11SBB124W5M	.378(9.60)	.197(5.00)	.239(6.07)
12	FFC05020-12SBB124W5M	.398(10.10)	.217(5.50)	.259(6.57)
13	FFC05020-13SBB124W5M	.417(10.60)	.236(6.00)	.278(7.07)
14	FFC05020-14SBB124W5M	.437(11.10)	.256(6.50)	.298(7.57)
15	FFC05020-15SBB124W5M	.457(11.60)	.276(7.00)	.318(8.07)
16	FFC05020-16SBB124W5M	.476(12.10)	.295(7.50)	.337(8.57)
17	FFC05020-17SBB124W5M	.496(12.60)	.315(8.00)	.357(9.07)
18	FFC05020-18SBB124W5M	.516(13.10)	.335(8.50)	.377(9.57)
19	FFC05020-19SBB124W5M	.535(13.60)	.354(9.00)	.396(10.07)
20	FFC05020-20SBB124W5M	.555(14.10)	.374(9.50)	.416(10.57)
21	FFC05020-21SBB124W5M	.575(14.60)	.394(10.00)	.436(11.07)
22	FFC05020-22SBB124W5M	.594(15.10)	.413(10.50)	.456(11.57)

Applicable FFC Recommended Dimension

Ordering Information

FFC 050 20 — XX S B B 1 2 4 W5 M  
 1 2 3 4 5 6 7 8 9 10 11 12

1   Category FFC-FPC	2   Series Number 050-Pitch0.50mm	3   Distinction No. 20	4   Circuits XX	5   Assemble Layout S-SMT	6   Entry Angle B- 90° Angle
7   Contact Position B-Bottom	8   ZIF 1-ZIF	9   Plating 2-Tin Plated	10   Material-Resin 4-PA6T	11   Color-Resin W5-Housing: Natural, Actuator: Black	12   Packaging M-Reel



Recommended P.C.Board Layout

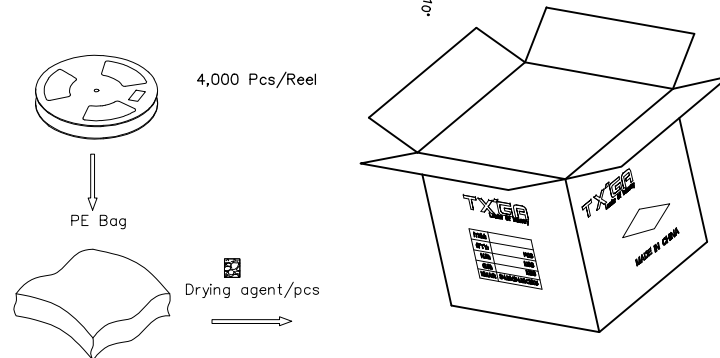
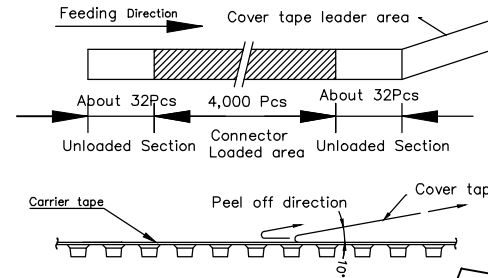
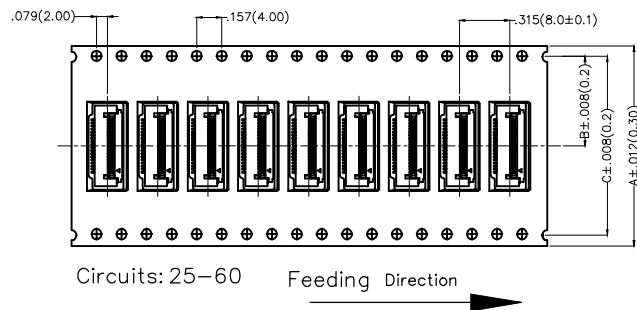
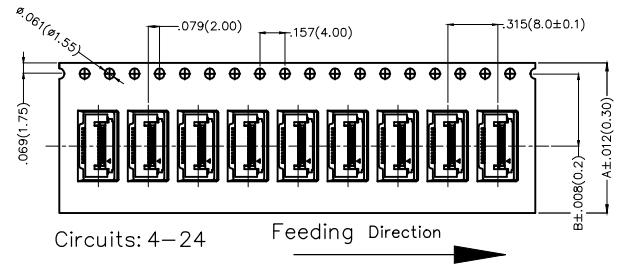
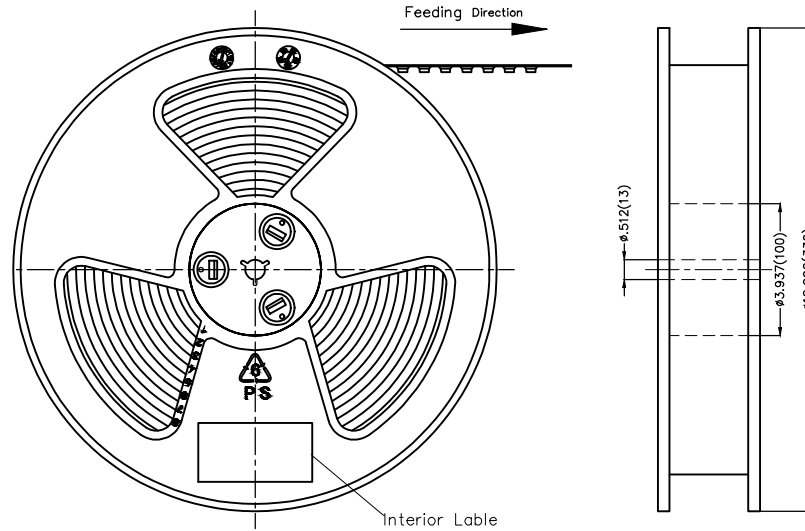
 THIRD ANGLE PROJECTION DESIGN UNITS Inch (metric) SCALE 1:1 SIZE A4	GENERAL TOLERANCES (UNLESS SPECIFIED) X.±.012(0.30) X.±5' X.X±.008(0.20) X.±2' X.XX±.006(0.15) .XX±1' X.XXX±.004(0.10) .XXX±0.5'		APPROVE BY FRANK CHECKED BY JACOB DRAWN BY CHERRY	DATE 18/JUN/13 DATE 18/JUN/13 DATE 18/JUN/13	PART NO. FFC05020-XXSBB124W5M TITLE FPC/FFC connector 0.5mm Bottom contact SMT	ITEM NO. FFC05020 REV 0 SHEET NO.1/2	 Leader Of Industry
	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

Note:

1. 10 sprocket hole cumulative tolerance  $\pm 0.2$
2. Carrier camber is within 1.0mm in 250mm
3. Material: White Conductive polystyrene Alloy 100% recyclable
4. All dimensions meet EIA-481-3 requirements
5. Peel off force of cover tape & carrier tape: 20g~130g(0.2N~1.3N)
6. Component load per 13" reel: 4,000 pcs

Circuits (n)	Dimensions(in/mm)		
	A	B	C
4~8	.630(16.0)	.295(7.50)	—
9~24	.945(24.0)	.453(11.50)	—
25~36	1.260(32.0)	.561(14.25)	1.122(28.50)
37~55	1.732(44.0)	.797(20.25)	1.594(40.50)
50~55	1.732(44.0)	.797(20.25)	1.594(40.50)
56~60	2.205(56.0)	1.033(26.25)	2.067(52.50)



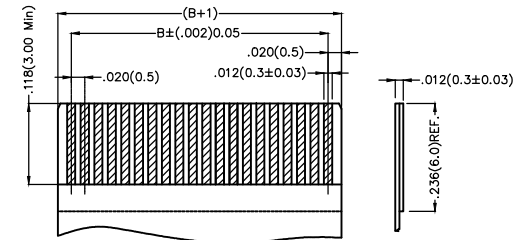
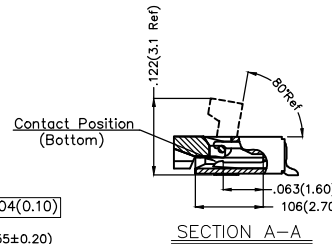
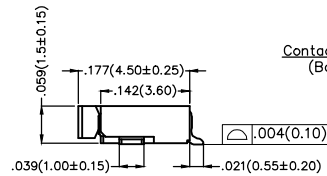
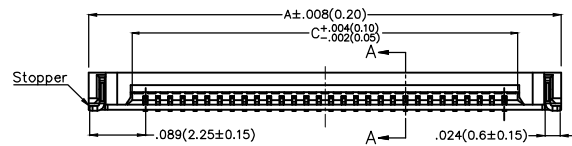
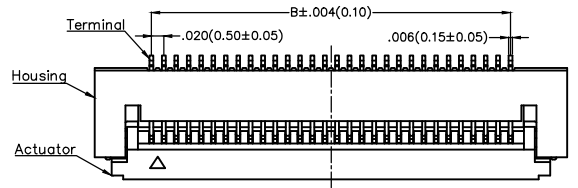
 THIRD ANGLE PROJECTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY	DATE	PART NO.	ITEM NO.	 Leader Of Industry
	X.±.012(0.30)	X.±5'	FRANK	18/JUN/13	FFC05020-XXSBB124W5M	FFC05020	
DESIGN UNITS	X.X±.008(0.20)	.X'±2'	CHECKED BY	DATE	TITLE		REV 0
Inch (metric)	X.XX±.006(0.15)	.XX'±1'	JACOB	18/JUN/13	FPC/FFC connector 0.5mm Bottom contact SMT		
SCALE	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			CHERRY	18/JUN/13			

REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD

SPECIFICATIONS

Electrical  
 Current Rating: 0.5A AC(rms)/DC  
 Voltage Rating: 50V AC(rms)/DC  
 Contact Resistance: 20 mΩ Max  
 Insulation Resistance: 500 MΩ MIN  
 Withstanding Voltage: 200V AC r.m.s  
 Temperature Range—Operating: -25°C~+85°C

Material and Plating  
 Housing: LCP UL 94V-0  
 Actuator: LCP UL 94V-0  
 Contact: Phosphor Bronze/ Tin Plated  
 Stopper: Phosphor Bronze/ Tin Plated

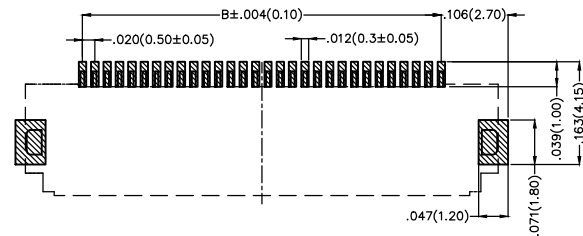


Applicable FFC Recommended Dimension

Ordering Information

FFC 050 20 — XX S B B 1 2 3 W5 M — C  
 1 2 3 4 5 6 7 8 9 10 11 12 13

1   Category FFC—FFC	2   Series Number 050—Pitch0.50mm	3   Distinction No. 20	4   Circuits XX	5   Assemble Layout S—SMT	6   Entry Angle B— 90° Angle	7   Contact Position B—Bottom
8   ZIF 1—ZIF	9   Plating 2—Tin Plated	10   Material—Resin 3—LCP	11   Color—Resin W5—Housing: Natural, Actuator: Black	12   Packaging M—Reel	13   Type C— Type C	





Recommended P.C.Board Layout

 THIRD ANGLE PROJECTION	GENERAL TOLERANCES (UNLESS SPECIFIED) X.±.012(0.30) X.±5' X.X±.008(0.20) X.±2' X.XX±.006(0.15) .XX±1' X.XXX±.004(0.10) .XXX±0.5'		APPROVE BY FRANK CHECKED BY JACOB DRAWN BY CHERRY	DATE 18/JUN/13 DATE 18/JUN/13 DATE 18/JUN/13	PART NO. FFC05020—XXSBB123W5M—C ITEM NO. FFC05020	 Leader Of Industry REV 0 SHEET NO.1/3
	DESIGN UNITS Inch (metric) SCALE 5:1 SIZE A4	TITLE FFC/FFC connector 0.5mm Bottom contact SMT 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

Circuits (n)	Part No.	Dimensions(in/mm)		
		A	B	C
6	FFC05020-06SBB123W5M-C	.280(7.10)	.098(2.50)	.172(3.60)
8	FFC05020-08SBB123W5M-C	.319(8.10)	.138(3.50)	.181(4.60)
9	FFC05020-09SBB123W5M-C	.339(8.60)	.157(4.00)	.201(5.10)
10	FFC05020-10SBB123W5M-C	.358(9.10)	.177(4.50)	.220(5.60)
12	FFC05020-12SBB123W5M-C	.398(10.10)	.217(5.50)	.260(6.60)
20	FFC05020-20SBB123W5M-C	.555(14.10)	.374(9.50)	.417(10.60)
24	FFC05020-24SBB123W5M-C	.634(16.10)	.453(11.50)	.493(12.60)
26	FFC05020-26SBB123W5M-C	.673(17.10)	.492(12.50)	.535(13.60)
30	FFC05020-30SBB123W5M-C	.752(19.10)	.571(14.50)	.614(15.60)
34	FFC05020-34SBB123W5M-C	.830(21.10)	.650(16.50)	.693(17.60)
35	FFC05020-35SBB123W5M-C	.850(21.60)	.669(17.00)	.713(18.10)
36	FFC05020-36SBB123W5M-C	.870(22.10)	.689(17.50)	.732(18.60)
40	FFC05020-40SBB123W5M-C	.949(24.10)	.768(19.50)	.811(20.60)
50	FFC05020-50SBB123W5M-C	1.146(29.10)	.965(24.50)	1.008(25.60)
54	FFC05020-54SBB123W5M-C	1.224(31.10)	1.043(26.50)	1.087(27.60)
60	FFC05020-60SBB123W5M-C	1.343(34.10)	1.161(29.50)	1.205(30.60)

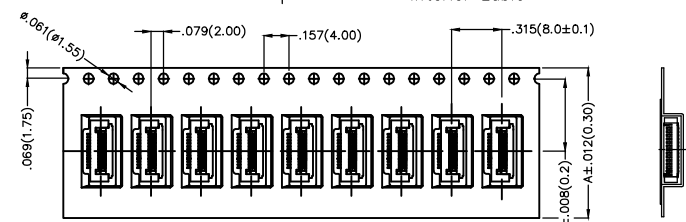
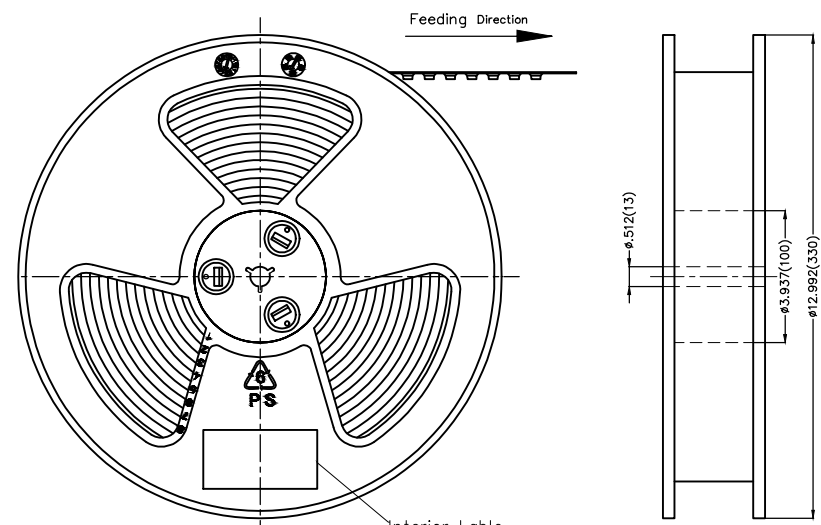
 THIRD ANGLE PROJECTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY	DATE	PART NO.	ITEM NO.	 Leader Of Industry	
	DESIGN UNITS Inch (metric)	X.±.012(0.30)	X.±5'	FRANK	18/JUN/13	FFC05020-XXSBB123W5M-C		FFC05020
SCALE	SIZE	X.XX±.008(0.20)	X.±2'	CHECKED BY	DATE	TITLE	REV 0	SHEET NO. 2/3
5:1	A4	X.XX±.006(0.15)	.XX±1'	JACOB	18/JUN/13	FPC/FFC connector 0.5mm Bottom contact SMT		
		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		
				CHERRY	18/JUN/13			

REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD

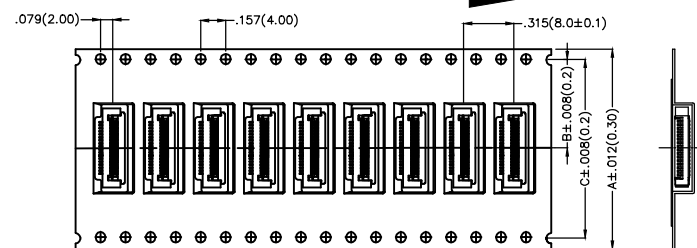
Note:

- 10 sprocket hole cumulative tolerance  $\pm 0.2$
- Carrier camber is within 1.0mm in 250mm
- Material: White Conductive polystyrene Alloy 100% recyclable
- All dimensions meet EIA-481-3 requirements
- Peel off force of cover tape & carrier tape: 20g~130g(0.2N~1.3N)
- Component load per 13" reel: 4,000 pcs

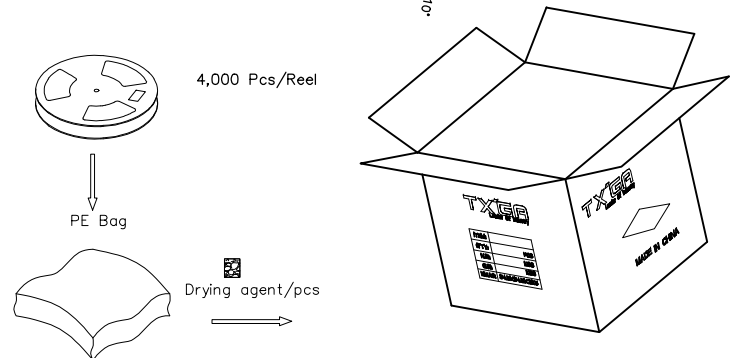
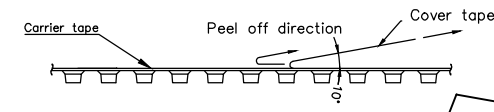
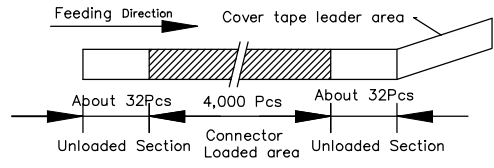
Circuits (n)	Dimensions(in/mm)		
	A	B	C
6~20	.945(24.0)	.453(11.5)	—
22~30	1.260(32.0)	.561(14.25)	1.033(26.50)
34~50	1.732(44.0)	.797(20.25)	1.594(40.50)
54~60	2.205(56.0)	1.033(26.25)	2.067(52.50)



Circuits: 6-20 Feeding Direction



Circuits: 22-60 Feeding Direction



 THIRD ANGLE PROJECTION DESIGN UNITS Inch (metric) SCALE 5:1 SIZE A4	GENERAL TOLERANCES (UNLESS SPECIFIED) $X \pm .012(0.30)$ $X \pm .5'$ $X.X \pm .008(0.20)$ $.X \pm 2'$ $X.XX \pm .006(0.15)$ $.XX \pm 1'$ $X.XXX \pm .004(0.10)$ $.XXX \pm 0.5'$		APPROVE BY FRANK CHECKED BY JACOB DRAWN BY CHERRY	DATE 18/JUN/13 DATE 18/JUN/13 DATE 18/JUN/13	PART NO. FFC05020-XXSBB123W5M-C TITLE FPC/FFC connector 0.5mm Bottom contact SMT	ITEM NO. FFC05020	 Leader Of Industry REV 0    SHEET NO. 3/3
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION						