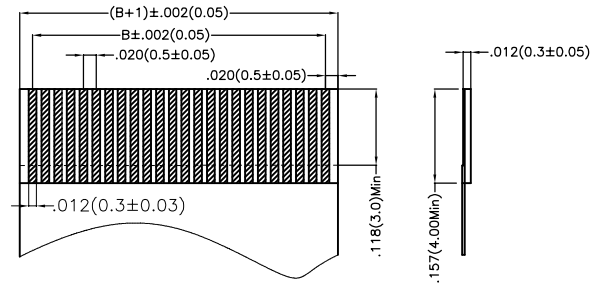
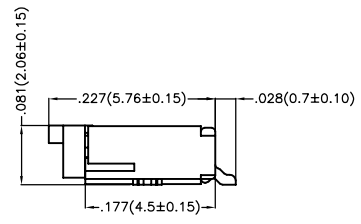
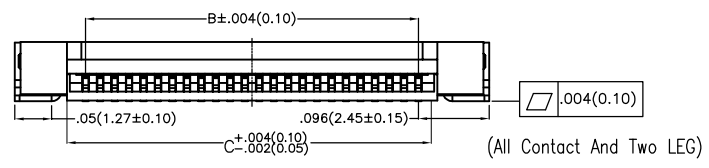
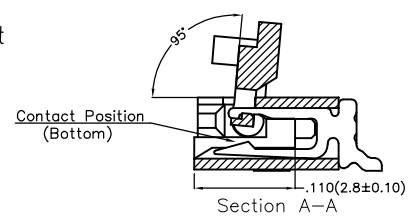
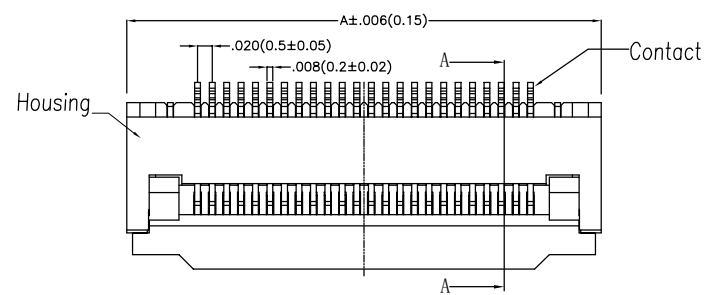


REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD

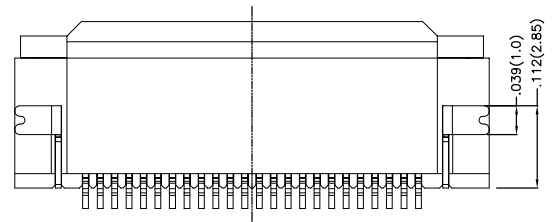
**SPECIFICATIONS**

**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/ Matte Tin Plated or Gold Plated  
 Stopper: Brass/ Matte Tin Plated



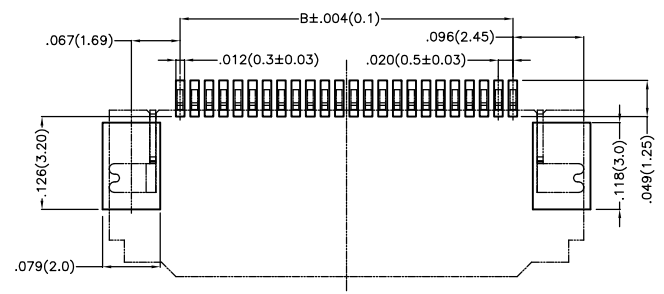
Applicable FFC Recommended Dimension



**Ordering Information**

FFC 050 21 — XX S B B 1 X 3 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. 21	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 1-Gold Plated 2-Tin Plated	10 Material-Resin 3-LCP	11 Color-Resin W5-Housing: Natural, Actuator: Black	12 Packaging M-Reel



Recommended P.C.Board Layout

THIRD ANGLE PROJECTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY FRANK	DATE 18/JUN/13	PART NO. FFC05021-XXSBB1X3W5M	ITEM NO. FFC05021	 Building Technology Cornerstone
	DESIGN UNITS Inch (metric)	X.±.012(0.30) X.±5°	CHECKED BY JACOB	DATE 18/JUN/13	TITLE FPC/FFC connector 0.5mm Bottom contact SMT		
SCALE 5:1	SIZE A4	X.XX±.006(0.15) .XX±1°	DRAWN BY CHERRY	DATE 18/JUN/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

A

B

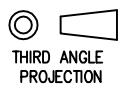

C

D

E

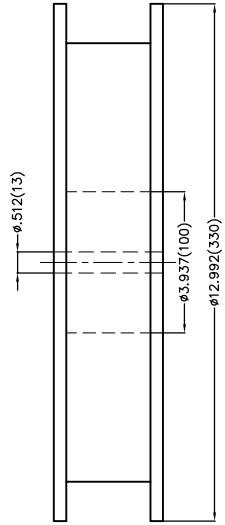
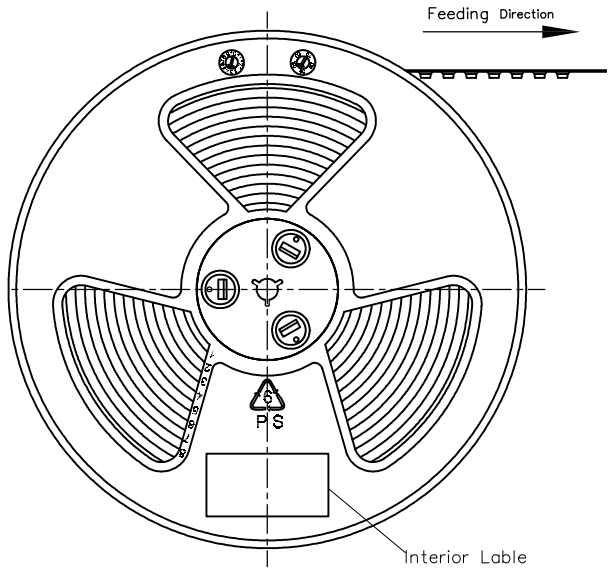
F

Circuits (n)	Part No.	Dimensions(in/mm)			Circuits (n)	Part No.	Dimensions(in/mm)		
		A	B	C			A	B	C
4	FFC05021-04SBB1X3W5M	.256(6.50)	.059(1.50)	.101(2.57)	22	FFC05021-22SBB1X3W5M	.610(15.50)	.413(10.50)	.456(11.57)
5	FFC05021-05SBB1X3W5M	.276(7.00)	.079(2.00)	.121(3.07)	24	FFC05021-24SBB1X3W5M	.650(16.50)	.453(11.50)	.495(12.57)
6	FFC05021-06SBB1X3W5M	.295(7.50)	.098(2.50)	.141(3.57)	26	FFC05021-26SBB1X3W5M	.689(17.50)	.492(12.50)	.534(13.57)
8	FFC05021-08SBB1X3W5M	.335(8.50)	.138(3.50)	.180(4.57)	30	FFC05021-30SBB1X3W5M	.768(19.50)	.571(14.50)	.613(15.57)
9	FFC05021-09SBB1X3W5M	.354(9.00)	.157(4.00)	.200(5.07)	31	FFC05021-31SBB1X3W5M	.787(20.00)	.591(15.00)	.633(16.07)
10	FFC05021-10SBB1X3W5M	.374(9.50)	.177(4.50)	.219(5.57)	38	FFC05021-38SBB1X3W5M	.925(23.50)	.728(18.50)	.770(19.57)
11	FFC05021-11SBB1X3W5M	.394(10.00)	.197(5.00)	.239(6.07)	40	FFC05021-40SBB1X3W5M	.965(24.50)	.768(19.50)	.810(20.57)
12	FFC05021-12SBB1X3W5M	.413(10.50)	.217(5.50)	.259(6.57)	42	FFC05021-42SBB1X3W5M	1.004(25.50)	.807(20.50)	.849(21.57)
13	FFC05021-13SBB1X3W5M	.433(11.00)	.236(6.00)	.278(7.07)	47	FFC05021-47SBB1X3W5M	1.102(28.00)	.906(23.00)	.948(24.07)
14	FFC05021-14SBB1X3W5M	.453(11.50)	.256(6.50)	.298(7.57)	50	FFC05021-50SBB1X3W5M	1.161(29.50)	.965(24.50)	1.007(25.57)
15	FFC05021-15SBB1X3W5M	.472(12.00)	.276(7.00)	.318(8.07)	52	FFC05021-52SBB1X3W5M	1.201(30.50)	1.004(25.50)	1.046(26.57)
17	FFC05021-17SBB1X3W5M	.512(13.00)	.315(8.00)	.357(9.07)	54	FFC05021-54SBB1X3W5M	1.240(31.50)	1.043(26.50)	1.085(27.57)
18	FFC05021-18SBB1X3W5M	.531(13.50)	.335(8.50)	.377(9.57)	56	FFC05021-56SBB1X3W5M	1.280(32.50)	1.083(27.50)	1.125(28.57)
20	FFC05021-20SBB1X3W5M	.571(14.50)	.374(9.50)	.416(10.57)	60	FFC05021-60SBB1X3W5M	1.358(34.50)	1.161(29.50)	1.204(30.57)
21	FFC05021-21SBB1X3W5M	.591(15.00)	.394(10.00)	.436(11.07)	68	FFC05021-68SBB1X3W5M	1.516(38.50)	1.319(33.50)	1.361(34.57)

 THIRD ANGLE PROJECTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY FRANK	DATE 18/JUN/13	PART NO. FFC05021-XXSBB1X3W5M	ITEM NO. FFC05021	 Building Technology Cornerstone		
	X.±.012(0.30)	X.±5'	CHECKED BY JACOB	DATE 18/JUN/13	TITLE FPC/FFC connector 0.5mm Bottom contact SMT			REV 0	SHEET NO. 2/3
	X.X±.008(0.20)	.X'±2"	DRAWN BY CHERRY	DATE 18/JUN/13	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'						

1 2 3 4 5 6 7 8

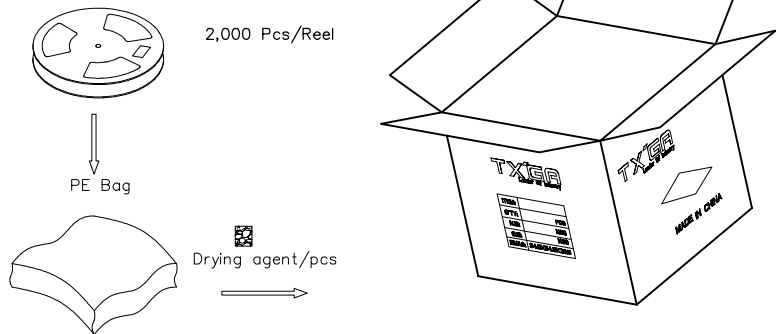
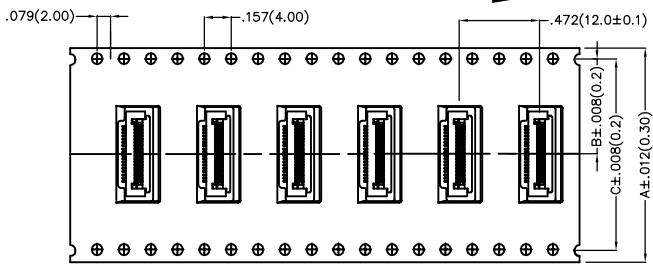
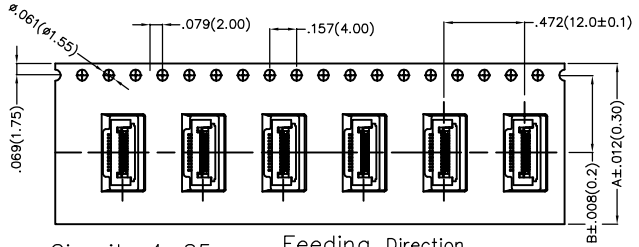
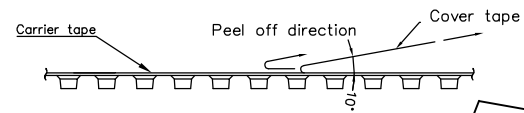
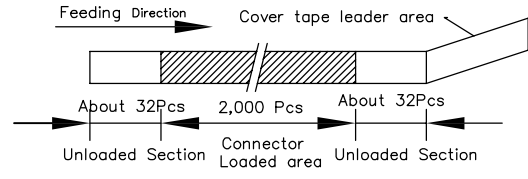
REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD



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: 2,000 pcs

Circuits (n)	Dimensions(in/mm)		
	A	B	C
4~11	.630(16.0)	.295(7.50)	—
12~25	.945(24.0)	.453(11.50)	—
26~36	1.260(32.0)	.561(14.25)	1.122(28.50)
37~59	1.732(44.0)	.797(20.25)	1.594(40.50)
60~68	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.	 Building Technology Cornerstone
	X. $\pm$ 0.12(0.30)	X. $\pm$ 5'	FRANK	18/JUN/13	FFC05021-XXSBB1X3W5M	FFC05021	
	X.X $\pm$ 0.008(0.20)	.X $\pm$ 2'	CHECKED BY	DATE	TITLE		
	X.XX $\pm$ 0.006(0.15)	.XX $\pm$ 1'	JACOB	18/JUN/13	FPC/FFC connector 0.5mm Bottom contact SMT		
SCALE	SIZE	X.XXX $\pm$ 0.004(0.10)	.XXX $\pm$ 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			CHERRY	18/JUN/13	REV 0	SHEET NO. 3/3