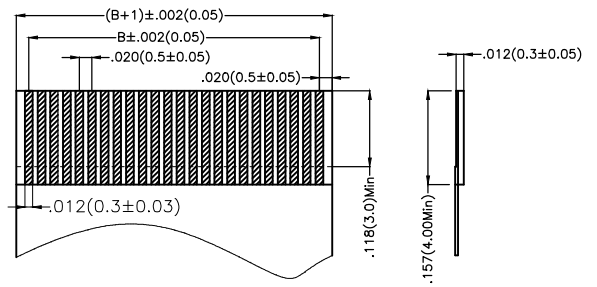
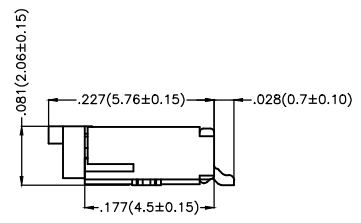
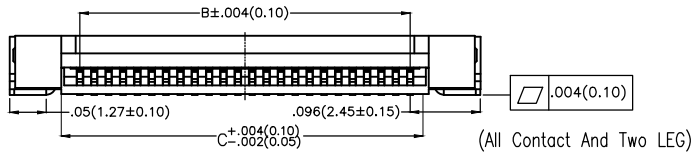
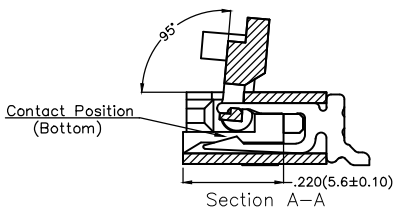
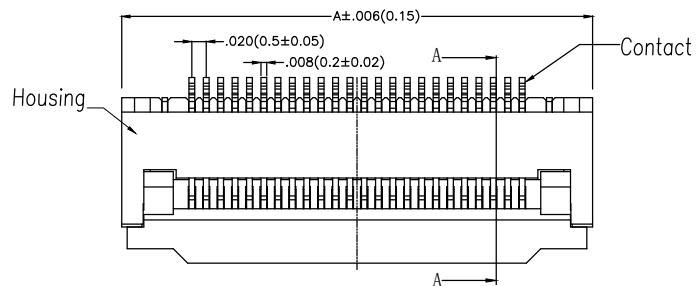


REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD

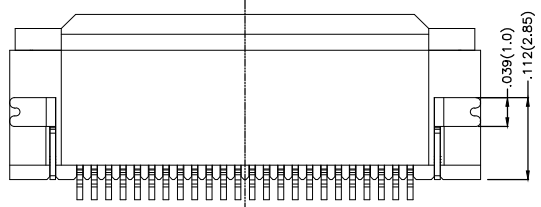
SPECIFICATIONS

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



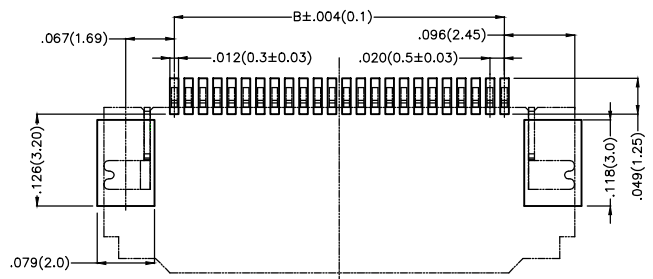
Applicable FFC  
 Recommended Dimension




Ordering Information

FFC 050 21 — XX S B B 1 2 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 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-XXSBB123W5M	ITEM NO. FFC05021	 Leader Of Industry
	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 JACOB	DATE 18/JUN/13	TITLE FPC/FFC connector 0.5mm Bottom contact SMT	
SCALE 5:1	SIZE A4		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		

REV 0 SHEET NO. 1/3

1 2 3 4 5 6 7 8

REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD

A

A

B

B

C

C

D

D



E

E

F

F

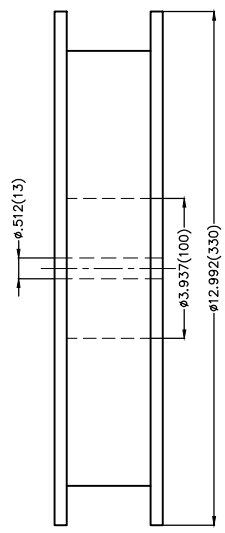
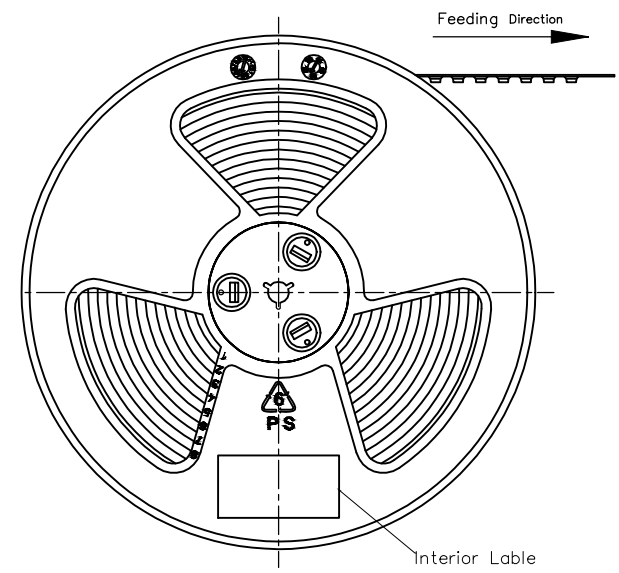
Circuits (n)	Part No.	Dimensions(in/mm)			Circuits (n)	Part No.	Dimensions(in/mm)		
		A	B	C			A	B	C
4	FFC05021-04SBB123W5M	.256(6.50)	.059(1.50)	.101(2.57)	21	FFC05021-21SBB123W5M	.591(15.00)	.394(10.00)	.436(11.07)
6	FFC05021-06SBB123W5M	.295(7.50)	.098(2.50)	.141(3.57)	22	FFC05021-22SBB123W5M	.610(15.50)	.413(10.50)	.456(11.57)
7	FFC05021-07SBB123W5M	.315(8.00)	.118(3.00)	.160(4.07)	23	FFC05021-23SBB123W5M	.630(16.00)	.433(11.00)	.475(12.07)
8	FFC05021-08SBB123W5M	.335(8.50)	.138(3.50)	.180(4.57)	24	FFC05021-24SBB123W5M	.650(16.50)	.453(11.50)	.495(12.57)
9	FFC05021-09SBB123W5M	.354(9.00)	.157(4.00)	.200(5.07)	25	FFC05021-25SBB123W5M	.669(17.00)	.472(12.00)	.515(13.07)
10	FFC05021-10SBB123W5M	.374(9.50)	.177(4.50)	.219(5.57)	26	FFC05021-26SBB123W5M	.689(17.50)	.492(12.50)	.534(13.57)
11	FFC05021-11SBB123W5M	.394(10.00)	.197(5.00)	.239(6.07)	27	FFC05021-27SBB123W5M	.709(18.00)	.512(13.00)	.554(14.07)
12	FFC05021-12SBB123W5M	.413(10.50)	.217(5.50)	.260(6.57)	28	FFC05021-28SBB123W5M	.728(18.50)	.531(13.50)	.574(14.57)
13	FFC05021-13SBB123W5M	.433(11.00)	.236(6.00)	.278(7.07)	30	FFC05021-30SBB123W5M	.768(19.50)	.571(14.50)	.613(15.57)
14	FFC05021-14SBB123W5M	.453(11.50)	.256(6.50)	.298(7.57)	32	FFC05021-32SBB123W5M	.807(20.50)	.610(15.50)	.652(16.57)
15	FFC05021-15SBB123W5M	.472(12.00)	.276(7.00)	.318(8.07)	33	FFC05021-33SBB123W5M	.828(21.00)	.630(16.00)	.672(17.07)
16	FFC05021-16SBB123W5M	.492(12.50)	.295(7.50)	.337(8.57)	34	FFC05021-34SBB123W5M	.846(21.50)	.650(16.50)	.692(17.57)
17	FFC05021-17SBB123W5M	.512(13.00)	.315(8.00)	.357(9.07)	35	FFC05021-35SBB123W5M	.866(22.00)	.669(17.00)	.711(18.07)
18	FFC05021-18SBB123W5M	.531(13.50)	.335(8.50)	.377(9.57)	36	FFC05021-36SBB123W5M	.886(22.50)	.689(17.50)	.731(18.57)
19	FFC05021-19SBB123W5M	.551(14.00)	.354(9.00)	.396(10.07)	40	FFC05021-40SBB123W5M	.965(24.50)	.768(19.50)	.810(20.57)
20	FFC05021-20SBB123W5M	.571(14.50)	.374(9.50)	.416(10.57)					

 THIRD ANGLE PROJECTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY FRANK	DATE 18/JUN/13	PART NO. FFC05021-XXSBD223W5M	ITEM NO. FFC05021	 Leader Of Industry
	X.±.012(0.30)	X.±5'	CHECKED BY JACOB	DATE 18/JUN/13	TITLE FPC/FFC connector 0.5mm Bottom contact SMT		
	X.X±.008(0.20)	.X'±2'	DRAWN BY CHERRY	DATE 18/JUN/13	REV 0	SHEET NO. 2/3	
	X.XX±.006(0.15)	.XX'±1'	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'				

1 2 3 4 5 6 7 8

REV	LOCATIONS	DESCRIPTION	DATE	REVISED	APPD

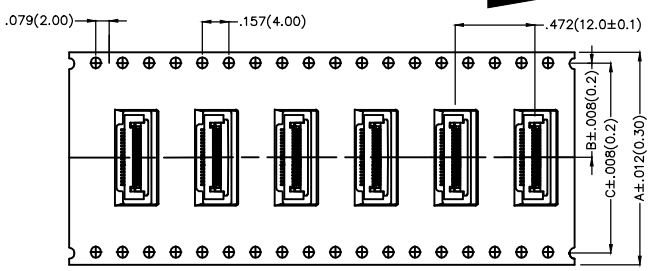
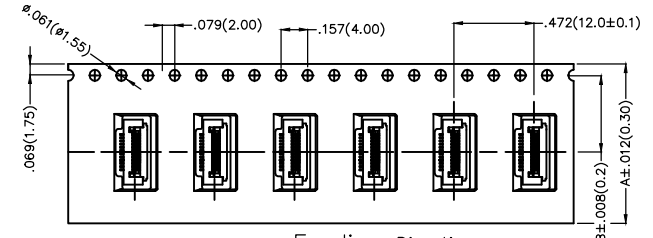
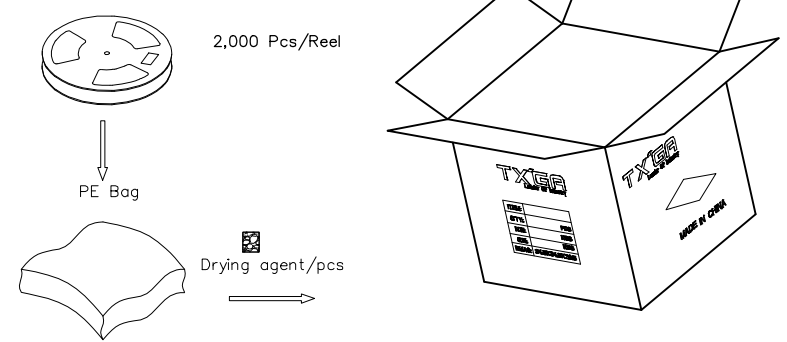
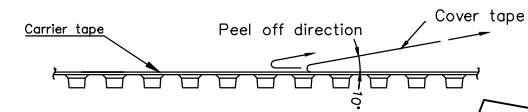
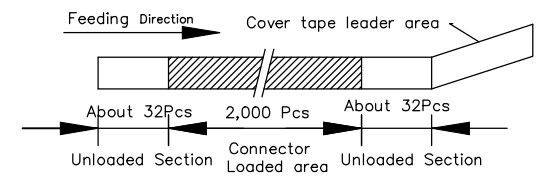
A  
B  
C  
D  
E  
F



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)
40	1.732(44.0)	.797(20.25)	1.594(40.50)



 THIRD ANGLE PROJECTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY	DATE	PART NO.	ITEM NO.	 Leader Of Industry
	X. $\pm$ .012(0.30)	X. $\pm$ 5'	FRANK	18/JUN/13	FFC05021-XXSBD223W5M	FFC05021	
	X.X $\pm$ .008(0.20)	.X $\pm$ 2'	CHECKED BY	DATE	TITLE		REV 0
	X.XX $\pm$ .006(0.15)	.XX $\pm$ 1'	JACOB	18/JUN/13	FPC/FFC connector 0.5mm Bottom contact SMT		SHEET NO. 3/3
SCALE	SIZE	X.XXX $\pm$ .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		

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