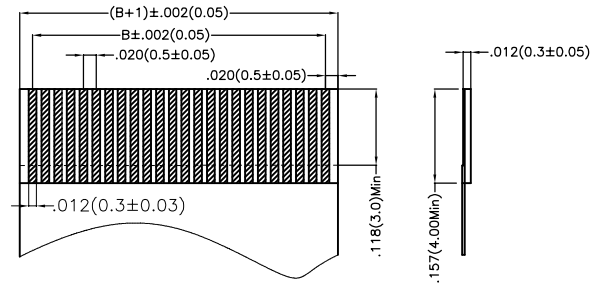
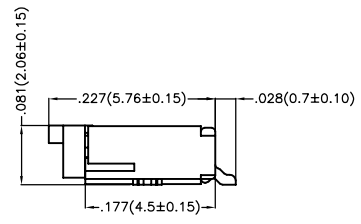
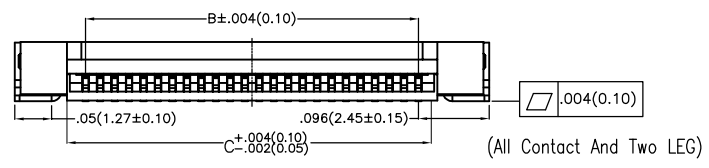
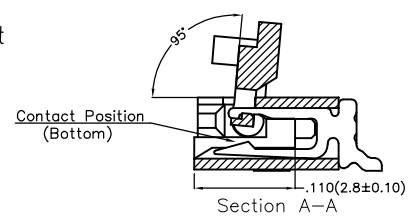
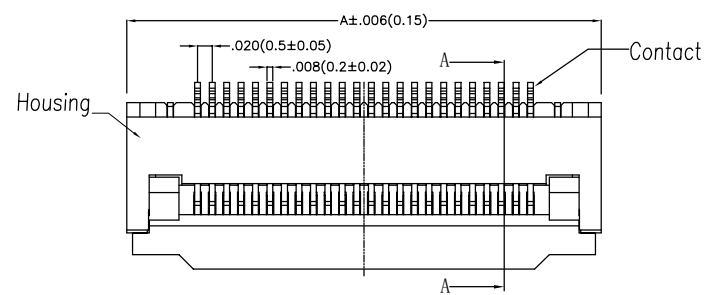


REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD

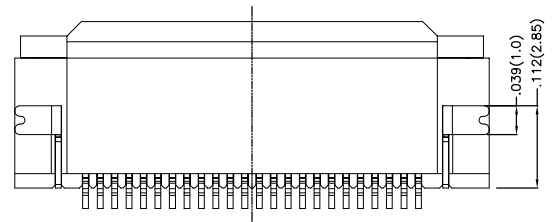
SPECIFICATIONS

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



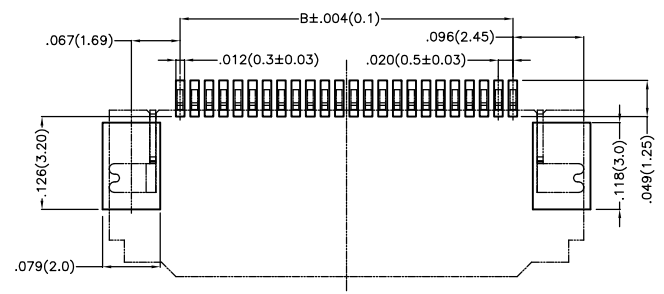
Applicable FFC Recommended Dimension



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		
		X.XXX±.004(0.10) .XXX±0.5°					

1 2 3 4 5 6 7 8

REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD

A

B



C

D

E

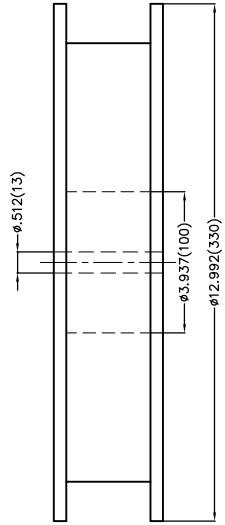
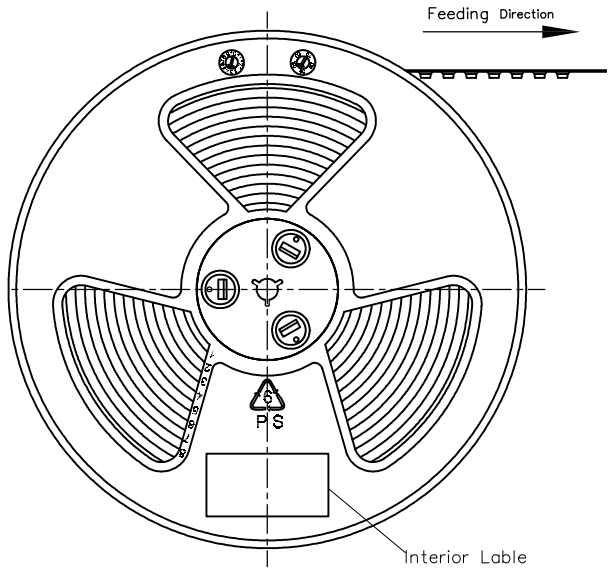
F

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)	24	FFC05021-24SBB1X3W5M	.650(16.50)	.453(11.50)	.495(12.57)
5	FFC05021-05SBB1X3W5M	.276(7.00)	.079(2.00)	.121(3.07)	26	FFC05021-26SBB1X3W5M	.689(17.50)	.492(12.50)	.534(13.57)
6	FFC05021-06SBB1X3W5M	.295(7.50)	.098(2.50)	.141(3.57)	30	FFC05021-30SBB1X3W5M	.768(19.50)	.571(14.50)	.613(15.57)
8	FFC05021-08SBB1X3W5M	.335(8.50)	.138(3.50)	.180(4.57)	31	FFC05021-31SBB1X3W5M	.787(20.00)	.591(15.00)	.633(16.07)
9	FFC05021-09SBB1X3W5M	.354(9.00)	.157(4.00)	.200(5.07)	36	FFC05021-36SBB123W5M	.886(22.50)	.689(17.50)	.731(18.57)
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)
22	FFC05021-22SBB1X3W5M	.610(15.50)	.413(10.50)	.456(11.57)					

 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		
DESIGN UNITS Inch (metric)	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		
SCALE 5:1	SIZE A4	X.XX±.006(0.15)					
		X.XXX±.004(0.10)					

1 2 3 4 5 6 7 8

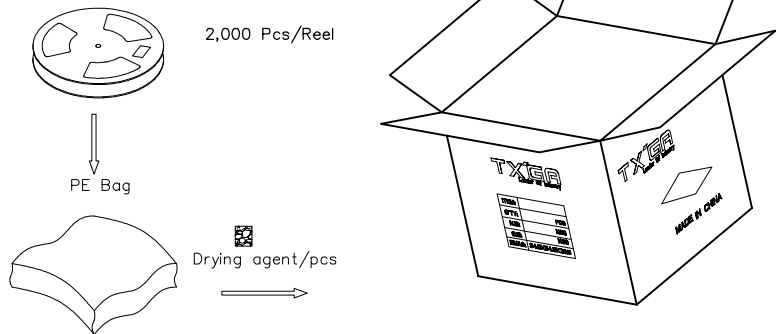
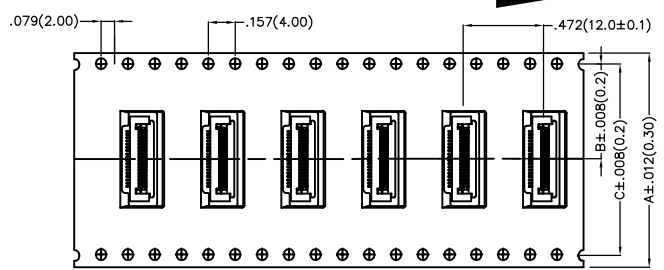
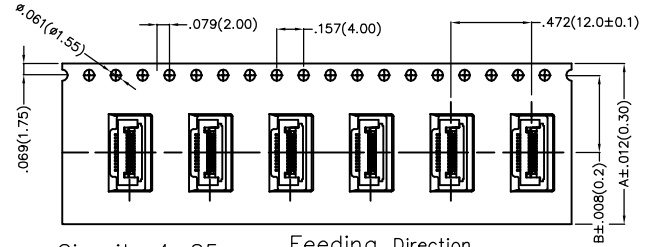
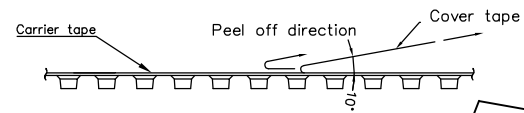
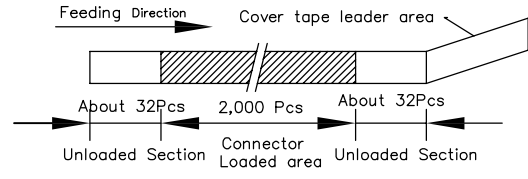
REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD



Note:

1. 10 sprocket hole cumulative tolerance ± 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 .012(0.30)	X.' \pm 5'	FRANK	18/JUN/13	FFC05021-XXSBB1X3W5M	FFC05021	
	X.X \pm .008(0.20)	.X' \pm 2'	CHECKED BY	DATE	TITLE		
	X.XX \pm .006(0.15)	.XX' \pm 1'	JACOB	18/JUN/13	FPC/FFC connector 0.5mm Bottom contact SMT		
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	REV 0	SHEET NO. 3/3