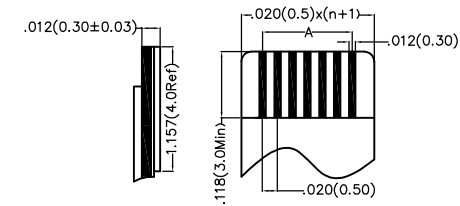
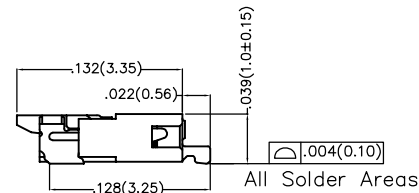
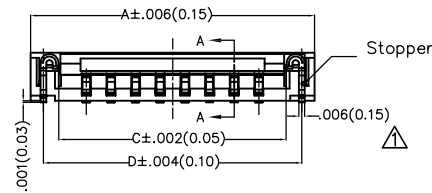
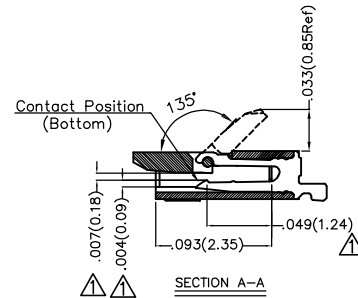
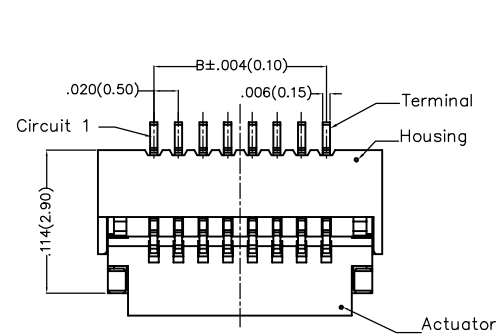


REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD
1	△	Size changes	05/MAY/22	MATT	CHERRY

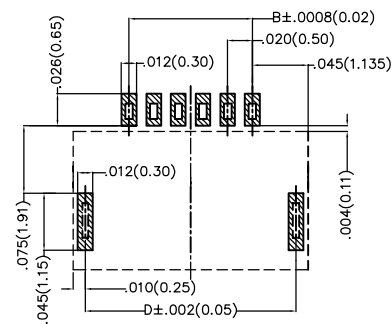
SPECIFICATIONS

Electrical

Current Rating: 0.5A AC(rms)/DC
Voltage Rating: 50V AC(rms)/DC
Contact Resistance: 20 mΩ Max
Withstanding Voltage: 200V AC/Minute
Temperature Range—Operating: -25°C~+85°C
Material and Plating
Housing: Heat Resistant Polymer UL 94V-0
Actuator: Heat Resistant Polymer UL 94V-0
Contact: Phosphor Bronze/ Gold or Tin Plated
Stopper: Phosphor Bronze/ Tin Plated



Applicable FFC
Recommended Dimension



Recommended P.C.Board Layout

Ordering Information

FFC 050 13 — XX S B B 1 X 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. 13	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 4-LCP	11 Color-Resin W5-Housing: Natural, Actuator: Black	12 Packaging M-Reel

 THIRD ANGLE PROJECTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY FRANK	DATE 18/JUN/13	PART NO. FFC05013-XXSBB1X4W5M	ITEM NO. FFC05013	 Leader Of Industry	
		X.±.012(0.30)	X.±5°	CHECKED BY	DATE	TITLE FPC/FFC connector 0.5mm Bottom contact SMT			
DESIGN UNITS Inch (metric)		X.X±.008(0.20)	.X°±2°	JACOB	18/JUN/13			REV 1	
SCALE 5:1	SIZE A4	X.XX±.006(0.15)	.XX°±1°	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			
		X.XXX±.004(0.10)	.XXX°±0.5°	CHERRY	18/JUN/13				

REV 1 SHEET NO. 1/3

A

B

C

D

E

F

A

B

C

D

E

F

12345678

REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD

Circuits (n)	Part No.	Dimensions(in/mm)				Circuits (n)	Part No.	Dimensions(in/mm)			
		A	B	C	D			A	B	C	D
4	FFC05013-04SBB1X4W5M	.148(3.77)	.059(1.50)	.102(2.60)	.128(3.27)	23	FFC05013-23SBB1X4W5M	.522(13.27)	.433(11.00)	.476(12.10)	.503(12.77)
5	FFC05013-05SBB1X4W5M	.168(4.27)	.079(2.00)	.122(3.10)	.148(3.77)	24	FFC05013-24SBB1X4W5M	.542(13.77)	.453(11.50)	.496(12.60)	.522(13.27)
6	FFC05013-06SBB1X4W5M	.188(4.77)	.098(2.50)	.142(3.60)	.168(4.27)	25	FFC05013-25SBB1X4W5M	.562(14.27)	.472(12.00)	.516(13.10)	.168(4.27)
7	FFC05013-07SBB1X4W5M	.207(5.27)	.118(3.00)	.161(4.10)	.188(4.77)	26	FFC05013-26SBB1X4W5M	.581(14.77)	.492(12.50)	.535(13.60)	.207(5.27)
8	FFC05013-08SBB1X4W5M	.227(5.77)	.138(3.50)	.181(4.60)	.207(5.27)	27	FFC05013-27SBB1X4W5M	.601(15.27)	.512(13.00)	.555(14.10)	.227(5.77)
9	FFC05013-09SBB1X4W5M	.247(6.27)	.157(4.00)	.200(5.10)	.227(5.77)	28	FFC05013-28SBB1X4W5M	.621(15.77)	.531(13.50)	.575(14.60)	.247(6.27)
10	FFC05013-10SBB1X4W5M	.267(6.77)	.177(4.50)	.220(5.60)	.247(6.27)	29	FFC05013-29SBB1X4W5M	.641(16.27)	.551(14.00)	.594(15.10)	.286(7.27)
11	FFC05013-11SBB1X4W5M	.286(7.27)	.197(5.00)	.240(6.10)	.267(6.77)	30	FFC05013-30SBB1X4W5M	.660(16.77)	.571(14.50)	.614(15.60)	.641(16.27)
12	FFC05013-12SBB1X4W5M	.306(7.77)	.217(5.50)	.260(6.60)	.286(7.27)	31	FFC05013-31SBB1X4W5M	.680(17.27)	.591(15.00)	.634(16.10)	.660(16.77)
13	FFC05013-13SBB1X4W5M	.326(8.27)	.236(6.00)	.280(7.10)	.306(7.77)	32	FFC05013-32SBB1X4W5M	.700(17.77)	.610(15.50)	.654(16.60)	.680(17.27)
14	FFC05013-14SBB1X4W5M	.345(8.77)	.256(6.50)	.299(7.60)	.326(8.27)	33	FFC05013-33SBB1X4W5M	.720(18.27)	.630(16.00)	.673(17.10)	.700(17.77)
15	FFC05013-15SBB1X4W5M	.748(9.27)	.276(7.00)	.319(8.10)	.345(8.77)	34	FFC05013-34SBB1X4W5M	.740(18.77)	.650(16.50)	.693(17.60)	.720(18.27)
16	FFC05013-16SBB1X4W5M	.385(9.77)	.295(7.50)	.339(8.60)	.748(9.27)	35	FFC05013-35SBB1X4W5M	.759(19.27)	.669(17.00)	.713(18.10)	.740(18.77)
17	FFC05013-17SBB1X4W5M	.404(10.27)	.315(8.00)	.358(9.10)	.385(9.77)	36	FFC05013-36SBB1X4W5M	.778(19.77)	.689(17.50)	.732(18.60)	.759(19.27)
18	FFC05013-18SBB1X4W5M	.424(10.77)	.335(8.50)	.378(9.60)	.404(10.27)	37	FFC05013-37SBB1X4W5M	.798(20.27)	.709(18.00)	.752(19.10)	.778(19.77)
19	FFC05013-19SBB1X4W5M	.444(11.27)	.354(9.00)	.398(10.10)	.424(10.77)	38	FFC05013-38SBB1X4W5M	.818(20.77)	.728(18.50)	.772(19.60)	.798(20.27)
20	FFC05013-20SBB1X4W5M	.463(11.77)	.374(9.50)	.417(10.60)	.444(11.27)	39	FFC05013-39SBB1X4W5M	.837(21.27)	.748(19.00)	.791(20.10)	.818(20.77)
21	FFC05013-21SBB1X4W5M	.483(12.27)	.394(10.00)	.437(11.10)	.463(11.77)	40	FFC05013-40SBB1X4W5M	.857(21.77)	.768(19.50)	.811(20.60)	.837(21.27)
22	FFC05013-22SBB1X4W5M	.503(12.77)	.413(10.50)	.457(11.60)	.483(12.27)						

 THIRD ANGLE PROJECTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY FRANK	DATE 18/JUN/13	PART NO. FFC05013-XXSBB1X4W5M	ITEM NO. FFC05013	 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			
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)	.XX'±1"						
		X.XXX±.004(0.10)	.XXX±0.5°			REV 1 SHEET NO. 2/3			

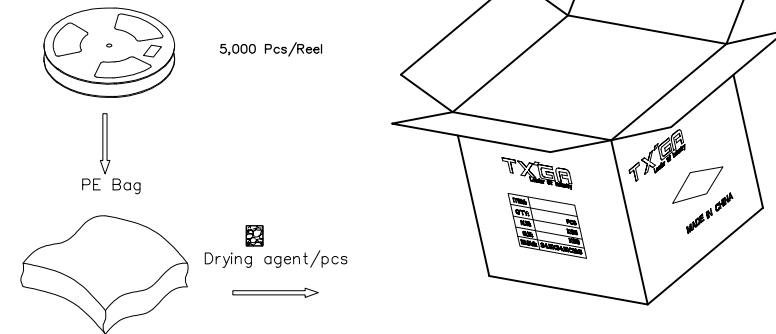
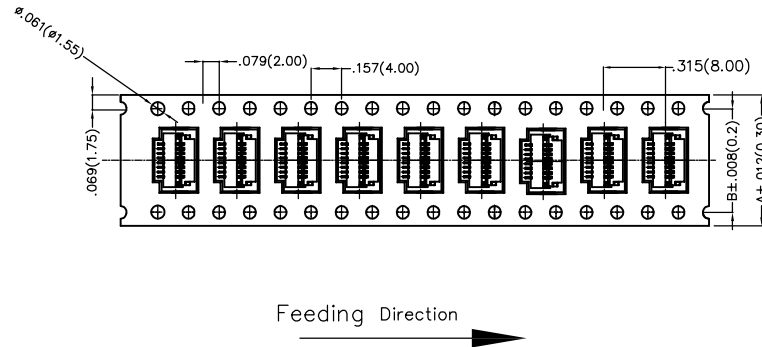
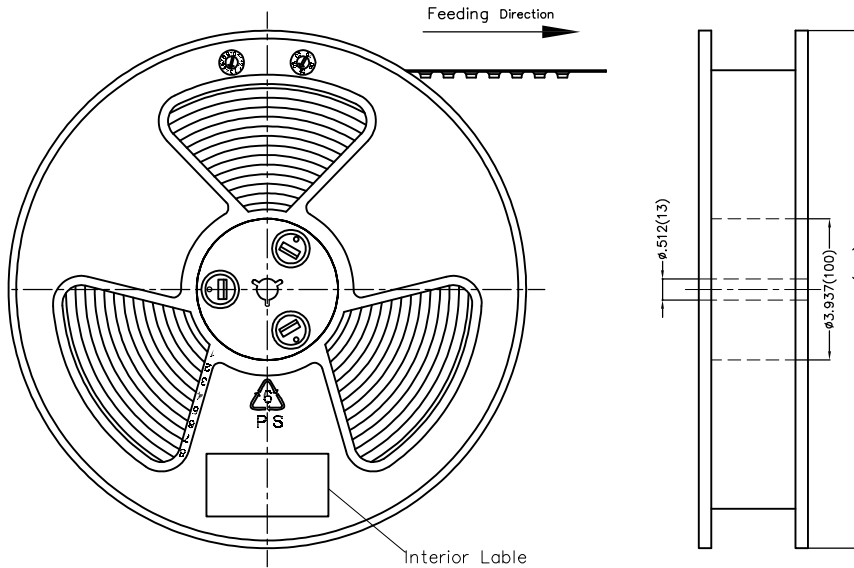
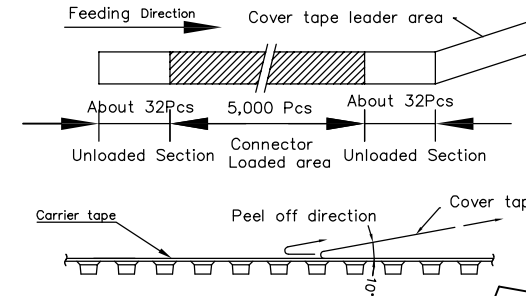
12345678

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: 5,000 pcs

Circuits (n)	Dimensions(in./mm)	
	A	B
4~22	.630(16.0)	.295(7.5)
24~30	.945(24.0)	.453(11.5)
40	1.260(32.0)	.561(14.25)



 THIRD ANGLE PROJECTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY FRANK	DATE 18/JUN/13	PART NO. FFC05013-XXSBB1X4W5M	ITEM NO. FFC05013	 Leader Of Industry	
		X.±0.12(0.30)	X.±5°	CHECKED BY	DATE	TITLE FPC/FFC connector 0.5mm Bottom contact SMT			
DESIGN UNITS Inch (metric)		X.X±0.008(0.20)	X.±2°	JACOB	18/JUN/13			REV 1	SHEET NO. 3/3
		X.XX±.006(0.15)	.XX±1°	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			
SCALE 5:1	SIZE A4	X.XXX±.004(0.10)	.XXX±0.5°	CHERRY	18/JUN/13				