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REV

LOCATIONS

DESCRIPTION

DATE

REVISER

APPD

SPECIFICATIONS

Electrical

Current Rating: 0.5A AC(rms)/DC

Voltage Rating: 50V AC(rms)/DC

Contact Resistance: 50 mΩ Max

Insulation Resistance: 500 MΩ MIN

Withstanding Voltage: 150V AC r.m.s

Temperature Range—Operating: -40°C~+105°C

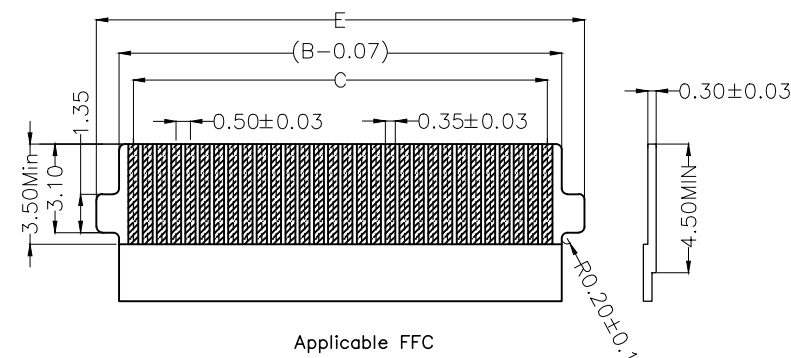
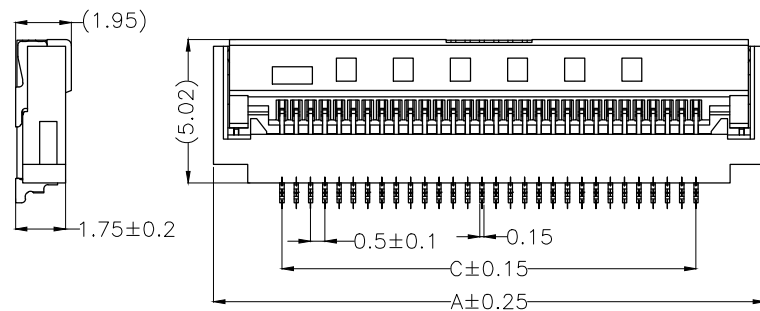
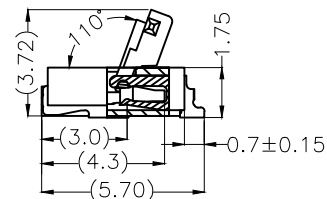
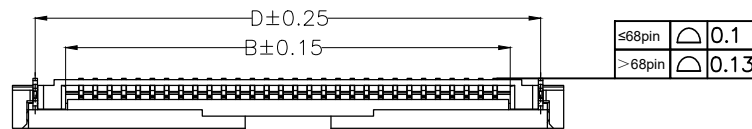
Material and Plating

Housing: LCP (UL94V-0) Natural

Actuator: LCP (UL94V-0) Black

Terminal: Copper Alloy/Gold-Plated

LEG: Copper Alloy/ Tin Plated

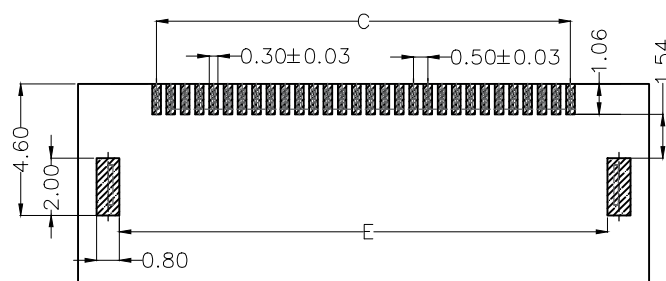


Applicable FFC
Recommended Dimension
General tolerances: ±0.05

Ordering Information

FFC 050 48 — XX S B B 1 1 3 NA 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. 48	4	Circuits XX	5	Assemble Layout S-SMT	6	Entry Angle B-90° Angle
7	Contact Position B-Bottom contact	8	ZIF 1-ZIF	9	Plating 1-Gold Plated	10	Material-Resin 3-LCP	11	Color-Resin NA-Housing: Natural, Actuator: Black	12	Packaging M-Reel



Recommended P.C.Board Layout
General tolerances: ±0.05

THIRD ANGLE
PROJECTIONDESIGN UNITS
METRICSCALE
5:1SIZE
A4GENERAL TOLERANCES
(UNLESS SPECIFIED)

X. ±0.30 X.* ±5°

X.X ±0.20 X.X.* ±2°

X.XX ±0.15 X.XX.* ±1°

X.XXX ±0.10 X.XXX.* ±0.5°

APPROVE BY
LEOCHECKED BY
GISELLEDRAWN BY
NICKDATE
15/Jul/24DATE
15/Jul/24DATE
15/Jul/24

PART NO.

FFC05048-XXSBB113NAM

TITLE
FPC/FFC Connector 0.50mm
Bottom Contact SMTTHIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL
ELECTRONICS(S.Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

ITEM NO.

FFC05048

TXGA
Building Technology Cornerstone

REV 0

SHEET NO. 1/3

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		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	

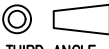
Circuits (n)	Part NO.	Dimensions				
		A	B	C	D	E
4	FFC05048-04SBB113NAM	6.30	2.57	1.50	4.70	4.10
5	FFC05048-05SBB113NAM	6.80	3.07	2.00	5.20	4.60
6	FFC05048-06SBB113NAM	7.30	3.57	2.50	5.70	5.10
7	FFC05048-07SBB113NAM	7.80	4.07	3.00	6.20	5.60
8	FFC05048-08SBB113NAM	8.30	4.57	3.50	6.70	6.10
9	FFC05048-09SBB113NAM	8.80	5.07	4.00	7.20	6.60
10	FFC05048-10SBB113NAM	9.30	5.57	4.50	7.70	7.10
11	FFC05048-11SBB113NAM	9.80	6.07	5.00	8.20	7.60
12	FFC05048-12SBB113NAM	10.30	6.57	5.50	8.70	8.10
13	FFC05048-13SBB113NAM	10.80	7.07	6.00	9.20	8.60
14	FFC05048-14SBB113NAM	11.30	7.57	6.50	9.70	9.10
15	FFC05048-15SBB113NAM	11.80	8.07	7.00	10.20	9.60
16	FFC05048-16SBB113NAM	12.30	8.57	7.50	10.70	10.10
17	FFC05048-17SBB113NAM	12.80	9.07	8.00	11.20	10.60
18	FFC05048-18SBB113NAM	13.30	9.57	8.50	11.70	11.10
19	FFC05048-19SBB113NAM	13.80	10.07	9.00	12.20	11.60
20	FFC05048-20SBB113NAM	14.30	10.57	9.50	12.70	12.10
21	FFC05048-21SBB113NAM	14.80	11.07	10.00	13.20	12.60
22	FFC05048-22SBB113NAM	15.30	11.57	10.50	13.70	13.10
23	FFC05048-23SBB113NAM	15.80	12.07	11.00	14.20	13.60
24	FFC05048-24SBB113NAM	16.30	12.57	11.50	14.70	14.10
25	FFC05048-25SBB113NAM	16.80	13.07	12.00	15.20	14.60
26	FFC05048-26SBB113NAM	17.30	13.57	12.50	15.70	15.10
27	FFC05048-27SBB113NAM	17.80	14.07	13.00	16.20	15.60
28	FFC05048-28SBB113NAM	18.30	14.57	13.50	16.70	16.10
29	FFC05048-29SBB113NAM	18.80	15.07	14.00	17.20	16.60
30	FFC05048-30SBB113NAM	19.30	15.57	14.50	17.70	17.10
31	FFC05048-31SBB113NAM	19.80	16.07	15.00	18.20	17.60
32	FFC05048-32SBB113NAM	20.30	16.57	15.50	18.70	18.10
33	FFC05048-33SBB113NAM	20.80	17.07	16.00	19.20	18.60
34	FFC05048-34SBB113NAM	21.30	17.57	16.50	19.70	19.10
35	FFC05048-35SBB113NAM	21.80	18.07	17.00	20.20	19.60
36	FFC05048-36SBB113NAM	22.30	18.57	17.50	20.70	20.10
37	FFC05048-37SBB113NAM	22.80	19.07	18.00	21.20	20.60
38	FFC05048-38SBB113NAM	23.30	19.57	18.50	21.70	21.10
39	FFC05048-39SBB113NAM	23.80	20.07	19.00	22.20	21.60
40	FFC05048-40SBB113NAM	24.30	20.57	19.50	22.70	22.10
41	FFC05048-41SBB113NAM	24.80	21.07	20.00	23.20	22.60
42	FFC05048-42SBB113NAM	25.30	21.57	20.50	23.70	23.10

Circuits (n)	Part NO.	Dimensions				
		A	B	C	D	E
43	FFC05048-43SBB113NAM	25.80	22.07	21.00	24.20	23.60
44	FFC05048-44SBB113NAM	26.30	22.57	21.50	24.70	24.10
45	FFC05048-45SBB113NAM	26.80	23.07	22.00	25.20	24.60
46	FFC05048-46SBB113NAM	27.30	23.57	22.50	25.70	25.10
47	FFC05048-47SBB113NAM	27.80	24.07	23.00	26.20	25.60
48	FFC05048-48SBB113NAM	28.30	24.57	23.50	26.70	26.10
49	FFC05048-49SBB113NAM	28.80	25.07	24.00	27.20	26.60
50	FFC05048-50SBB113NAM	29.30	25.57	24.50	27.70	27.10
51	FFC05048-51SBB113NAM	29.80	26.07	25.00	28.20	27.60
52	FFC05048-52SBB113NAM	30.30	26.57	25.50	28.70	28.10
53	FFC05048-53SBB113NAM	30.80	27.07	26.00	29.20	28.60
54	FFC05048-54SBB113NAM	31.30	27.57	26.50	29.70	29.10
55	FFC05048-55SBB113NAM	31.80	28.07	27.00	30.20	29.60
56	FFC05048-56SBB113NAM	32.30	28.57	27.50	30.70	30.10
57	FFC05048-57SBB113NAM	32.80	29.07	28.00	31.20	30.60
58	FFC05048-58SBB113NAM	33.30	29.57	28.50	31.70	31.10
59	FFC05048-59SBB113NAM	33.80	30.07	29.00	32.20	31.60
60	FFC05048-60SBB113NAM	34.30	30.57	29.50	32.70	32.10
61	FFC05048-61SBB113NAM	34.80	31.07	30.00	33.20	32.60
62	FFC05048-62SBB113NAM	35.30	31.57	30.50	33.70	33.10
63	FFC05048-63SBB113NAM	35.80	32.07	31.00	34.20	33.60
64	FFC05048-64SBB113NAM	36.30	32.57	31.50	34.70	34.10
65	FFC05048-65SBB113NAM	36.80	33.07	32.00	35.20	34.60
66	FFC05048-66SBB113NAM	37.30	33.57	32.50	35.70	35.10
67	FFC05048-67SBB113NAM	37.80	34.07	33.00	36.20	35.60
68	FFC05048-68SBB113NAM	38.30	34.57	33.50	36.70	36.10
69	FFC05048-69SBB113NAM	38.80	35.07	34.00	37.20	36.60
70	FFC05048-70SBB113NAM	39.30	35.57	34.50	37.70	37.10
71	FFC05048-71SBB113NAM	39.80	36.07	35.00	38.20	37.60
72	FFC05048-72SBB113NAM	40.30	36.57	35.50	38.70	38.10
73	FFC05048-73SBB113NAM	40.80	37.07	36.00	39.20	38.60
74	FFC05048-74SBB113NAM	41.30	37.57	36.50	39.70	39.10
75	FFC05048-75SBB113NAM	41.80	38.07	37.00	40.20	39.60
76	FFC05048-76SBB113NAM	42.30	38.57	37.50	40.70	40.10
77	FFC05048-77SBB113NAM	42.80	39.07	38.00	41.20	40.60
78	FFC05048-78SBB113NAM	43.30	39.57	38.50	41.70	41.10
79	FFC05048-79SBB113NAM	43.80	40.07	39.00	42.20	41.60
80	FFC05048-80SBB113NAM	44.30	40.57	39.50	42.70	42.10

		GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY LEO	DATE 15/Jul/24	PART NO. FFC05048-XXSBB113NAM	ITEM NO. FFC05048		
DESIGN UNITS METRIC		X. ±0.30	X." ±5"	CHECKED BY GISELLE	DATE 15/Jul/24	TITLE FPC/FFC Connector 0.50mm Bottom Contact SMT		REV 0	SHEET NO. 2/3
SCALE 5:1	SIZE A4	X.XX ±0.15	X.XX' ±1"	DRAWN BY NICK	DATE 15/Jul/24	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO TXGA INDUSTRIAL ELECTRONICS(S,Z)CO.,LTD AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

Circuits (n)	Part NO.	Dimensions				
		A	B	C	D	E
4	FFC05048-04SBB113NAM	6.30	2.57	1.50	4.70	4.10
5	FFC05048-05SBB113NAM	6.80	3.07	2.00	5.20	4.60
6	FFC05048-06SBB113NAM	7.30	3.57	2.50	5.70	5.10
7	FFC05048-07SBB113NAM	7.80	4.07	3.00	6.20	5.60
8	FFC05048-08SBB113NAM	8.30	4.57	3.50	6.70	6.10
9	FFC05048-09SBB113NAM	8.80	5.07	4.00	7.20	6.60
10	FFC05048-10SBB113NAM	9.30	5.57	4.50	7.70	7.10
11	FFC05048-11SBB113NAM	9.80	6.07	5.00	8.20	7.60
12	FFC05048-12SBB113NAM	10.30	6.57	5.50	8.70	8.10
13	FFC05048-13SBB113NAM	10.80	7.07	6.00	9.20	8.60
14	FFC05048-14SBB113NAM	11.30	7.57	6.50	9.70	9.10
15	FFC05048-15SBB113NAM	11.80	8.07	7.00	10.20	9.60
16	FFC05048-16SBB113NAM	12.30	8.57	7.50	10.70	10.10
17	FFC05048-17SBB113NAM	12.80	9.07	8.00	11.20	10.60
18	FFC05048-18SBB113NAM	13.30	9.57	8.50	11.70	11.10
19	FFC05048-19SBB113NAM	13.80	10.07	9.00	12.20	11.60
20	FFC05048-20SBB113NAM	14.30	10.57	9.50	12.70	12.10
21	FFC05048-21SBB113NAM	14.80	11.07	10.00	13.20	12.60
22	FFC05048-22SBB113NAM	15.30	11.57	10.50	13.70	13.10
23	FFC05048-23SBB113NAM	15.80	12.07	11.00	14.20	13.60
24	FFC05048-24SBB113NAM	16.30	12.57	11.50	14.70	14.10
25	FFC05048-25SBB113NAM	16.80	13.07	12.00	15.20	14.60
26	FFC05048-26SBB113NAM	17.30	13.57	12.50	15.70	15.10
27	FFC05048-27SBB113NAM	17.80	14.07	13.00	16.20	15.60
28	FFC05048-28SBB113NAM	18.30	14.57	13.50	16.70	16.10
29	FFC05048-29SBB113NAM	18.80	15.07	14.00	17.20	16.60
30	FFC05048-30SBB113NAM	19.30	15.57	14.50	17.70	17.10
31	FFC05048-31SBB113NAM	19.80	16.07	15.00	18.20	17.60
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Circuits (n)	Part NO.	Dimensions				
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52	FFC05048-52SBB113NAM	30.30	26.57	25.50	28.70	28.10
53	FFC05048-53SBB113NAM	30.80	27.07	26.00	29.20	28.60
54	FFC05048-54SBB113NAM	31.30	27.57	26.50	29.70	29.10
55	FFC05048-55SBB113NAM	31.80	28.07	27.00	30.20	29.60
56	FFC05048-56SBB113NAM	32.30	28.57	27.50	30.70	30.10
57	FFC05048-57SBB113NAM	32.80	29.07	28.00	31.20	30.60
58	FFC05048-58SBB113NAM	33.30	29.57	28.50	31.70	31.10
59	FFC05048-59SBB113NAM	33.80	30.07	29.00	32.20	31.60
60	FFC05048-60SBB113NAM	34.30	30.57	29.50	32.70	32.10
61	FFC05048-61SBB113NAM	34.80	31.07	30.00	33.20	32.60
62	FFC05048-62SBB113NAM	35.30	31.57	30.50	33.70	33.10
63	FFC05048-63SBB113NAM	35.80	32.07	31.00	34.20	33.60
64	FFC05048-64SBB113NAM	36.30	32.57	31.50	34.70	34.10
65	FFC05048-65SBB113NAM	36.80	33.07	32.00	35.20	34.60
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67	FFC05048-67SBB113NAM	37.80	34.07	33.00	36.20	35.60
68	FFC05048-68SBB113NAM	38.30	34.57	33.50	36.70	36.10
69	FFC05048-69SBB113NAM	38.80	35.07	34.00	37.20	36.60
70	FFC05048-70SBB113NAM	39.30	35.57	34.50	37.70	37.10
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73	FFC05048-73SBB113NAM	40.80	37.07	36.00	39.20	38.60
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78	FFC05048-78SBB113NAM	43.30	39.57	38.50	41.70	41.10
79	FFC05048-79SBB113NAM	43.80	40.07	39.00	42.20	41.60
80	FFC05048-80SBB113NAM	44.30	40.57	39.50	42.70	42.10



THIRD ANGLE
PROJECTION

DESIGN UNITS
METRIC

SCALE
5:1

SIZE
A4

GENERAL TOLERANCES
(UNLESS SPECIFIED)

X. ±0.30

X.X ±0.20

X.XX ±0.15

X.XXX ±0.10

X.* ±5*

X.* ±2*

X.XX* ±1*

X.XXX* ±0.5*

APPROVE BY
LEO

CHECKED BY
GISELLE

DRAWN BY
NICK

DATE
15/Jul/24

DATE
15/Jul/24

DATE
15/Jul/24

PART NO.
FFC05048-XXSBB113NAM

TITLE
FPC/FFC Connector 0.50mm
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

ITEM NO.
FFC05048

REV 0

SHEET NO. 2/3



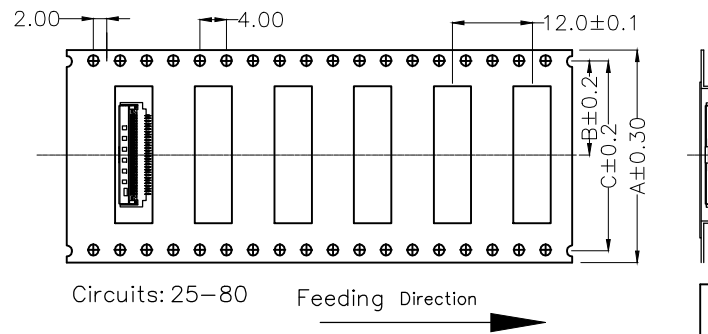
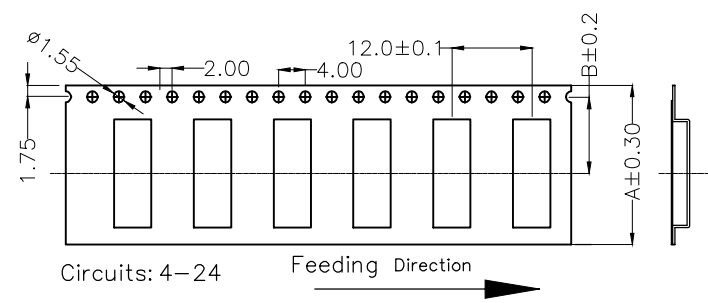
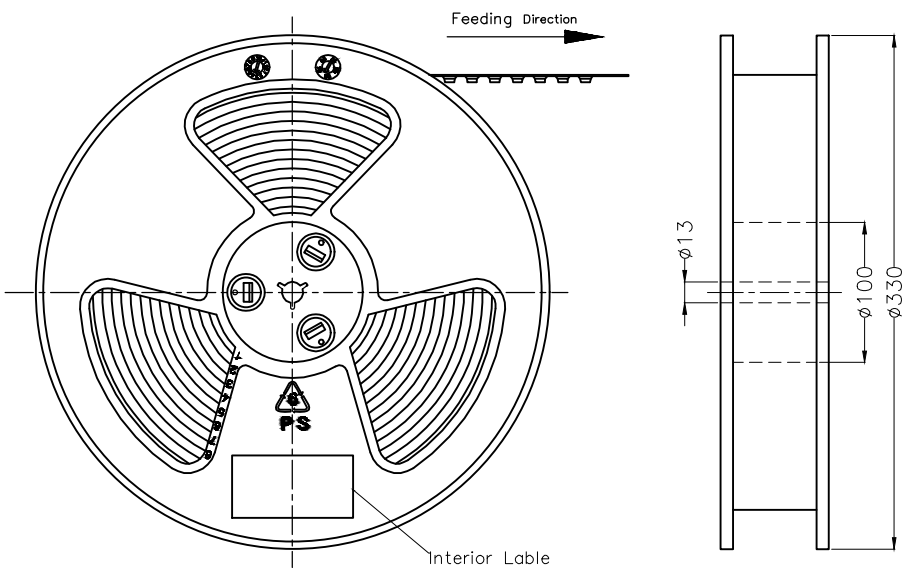
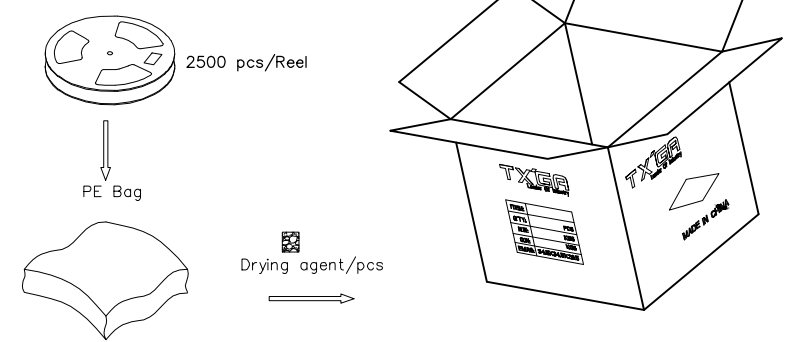
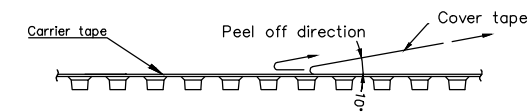
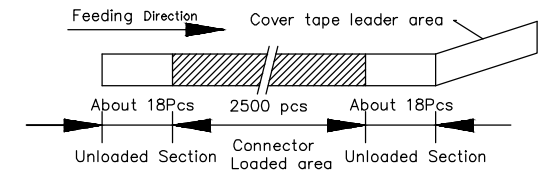
Building Technology Cornerstone

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: 2500 pcs

Circuits (n)	Dimensions(mm)		
	A	B	C
4~9	16.0	7.5	—
10~24	24.0	11.5	—
25~30	32.0	14.25	28.50
31~57	44.0	20.25	40.50
58~80	56.0	26.25	52.50



 THIRD ANGLE PROJECTION		GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY	DATE	PART NO.	ITEM NO.	 Building Technology Cornerstone	
				LEO	15/Jul/24	FFC05048-XXSBB113NAM	FFC05048		
DESIGN UNITS METRIC		X. ±0.30	X.* ±5°	CHECKED BY	DATE	TITLE FPC/FFC Connector 0.50mm Bottom Contact SMT		REV 0 SHEET NO. 3/3	
		X.X ±0.20	X.X* ±2°	GISELLE	15/Jul/24				
SCALE	SIZE	X.XX ±0.15	X.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			
5:1	A4	X.XXX ±0.10	X.XXX* ±0.5°	NICK	15/Jul/24				