

REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD
1	△	Update Temperature Range-Operating	12/SEP/24	MATT	LEO

SPECIFICATIONS

Electrical

Current Rating: 2.0A AC(rms)/DC

Voltage Rating: 125V AC(rms)/DC

Contact Resistance: 40 mΩ Max

Insulation Resistance: 1000 MΩ MIN

Withstanding Voltage: 500V AC r.m.s

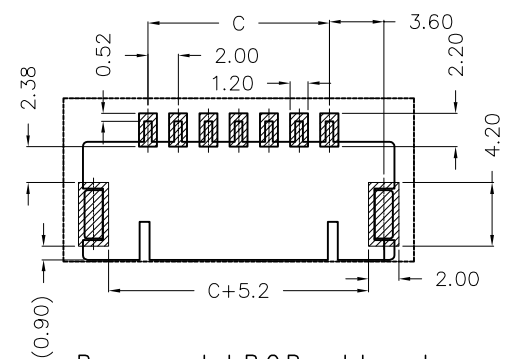
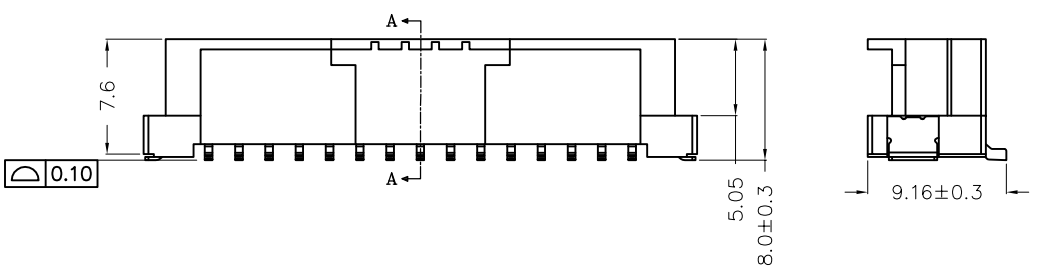
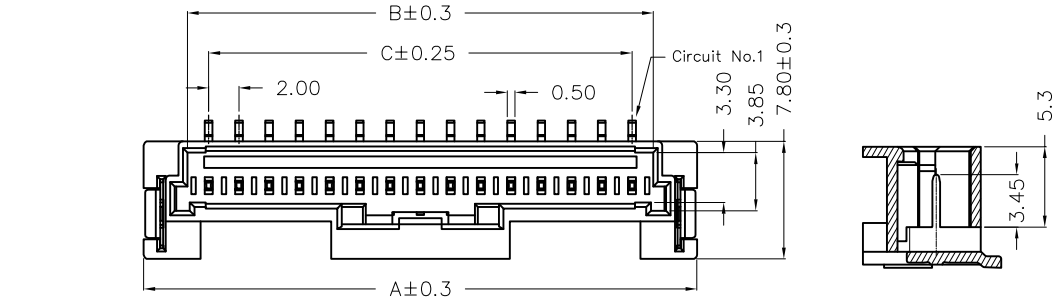
Temperature Range-Operating: -40°C ~ +105°C △

Material and Plating

Housing: PA9T( UL 94V-0)

Contact Pin: Brass

Plating: Tin Plated/Gold Flash



Recommended P.C.Board Layout  
General Tolerances: ±0.05mm

Circuits (n)	Part No.	Dimensions(mm)		
		A	B	C
2	FWF20028-S02SX5NAM	10.90	4.80	2.00
3	FWF20028-S03SX5NAM	12.60	6.80	4.00
4	FWF20028-S04SX5NAM	14.60	8.80	6.00
5	FWF20028-S05SX5NAM	16.60	10.80	8.00
6	FWF20028-S06SX5NAM	18.60	12.80	10.00
7	FWF20028-S07SX5NAM	20.60	14.80	12.00
8	FWF20028-S08SX5NAM	22.60	16.80	14.00
9	FWF20028-S09SX5NAM	24.60	18.80	16.00
10	FWF20028-S10SX5NAM	26.60	20.80	18.00
11	FWF20028-S11SX5NAM	28.60	22.80	20.00
12	FWF20028-S12SX5NAM	30.60	24.80	22.00
13	FWF20028-S13SX5NAM	32.60	26.80	24.00
14	FWF20028-S14SX5NAM	34.60	28.80	26.00
15	FWF20028-S15SX5NAM	36.60	30.80	28.00

Ordering Information

FWF 200 28 - S XX S X 5 NA M  
1 2 3 4 5 6 7 8 9 10

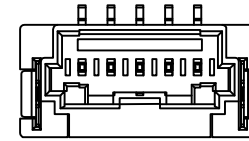
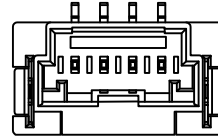
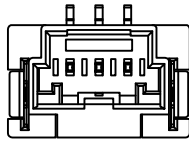
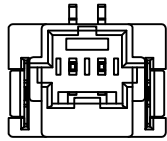
1   Category FWF-Wafer	2   Series Number 200-Pitch2.0mm	3   Distinction No. 28	4   Row Option S-Single Row	5   Circuits XX	6   Entry Angle S-180° Vertical
7   Plating 1-Gold Flash 2-Tin Plated	8   Material-Resin 5-PA9T	9   Color-Resin NA-Natural	10   Packaging M-Reel		

 THIRD ANGLE PROJECTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY LEO	DATE 07/AUG/22	PART NO. FWF20028-SXXSX5NAM	ITEM NO. FWF20028	 Building Technology Cornerstone
	X. ±0.30	X.* ±5°	CHECKED BY GISELLE	DATE 07/AUG/22	TITLE Wire to Board (Wafer) Pitch 2mm 180° Vertical (SMT)		
DESIGN UNITS METRIC(mm)	X.X ±0.20	X.X* ±2°	DRAWN BY MATT	DATE 07/AUG/22	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 ±0.15	X.XX* ±1°				
		X.XXX ±0.10	X.XXX* ±0.5°				

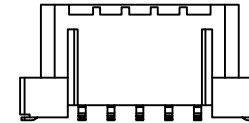
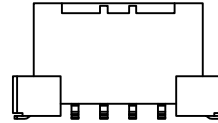
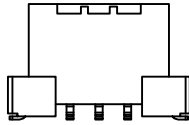
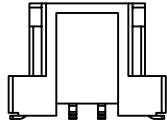
1 2 3 4 5 6 7 8

REV	LOCATIONS	DESCRIPTION	DATE	REVISER	APPD

A



B



C

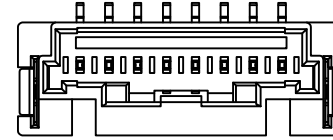
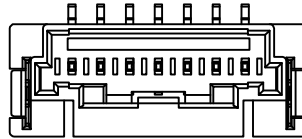
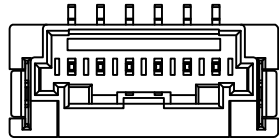
2Circuits

3Circuits

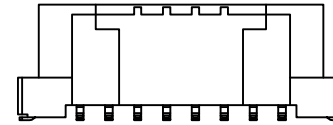
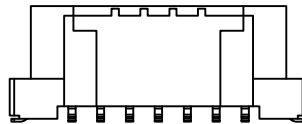
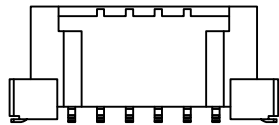
4Circuits

5Circuits

D



E



6Circuits

7Circuits

8Circuits

F

<p>THIRD ANGLE PROJECTION</p>	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY	DATE	PART NO.	ITEM NO.	<p>Building Technology Cornerstone</p>	
	X. ±0.30	X.* ±5°	LEO	07/AUG/22	FWF20028-SXXSX5NAM	FWF20028		
	DESIGN UNITS METRIC(mm)	X.X ±0.20	X.X* ±2°	CHECKED BY	DATE	TITLE		REV 1
	SCALE 5:1	X.XX ±0.15	X.XX* ±1°	GISELLE	07/AUG/22	Wire to Board (Wafer) Pitch 2mm 180° Vertical (SMT)		SHEET NO. 2/4
SIZE A4	X.XXX ±0.10	X.XXX* ±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			MATT
				07/AUG/22				

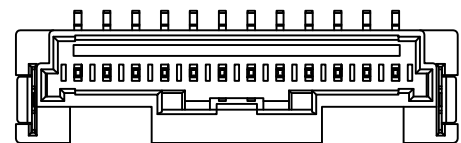
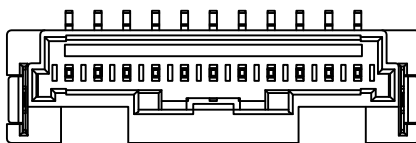
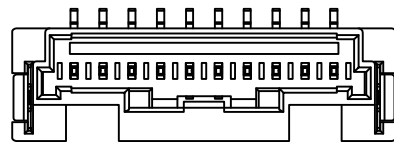
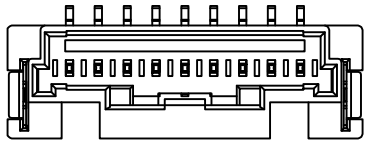
1 2 3 4 5 6 7 8

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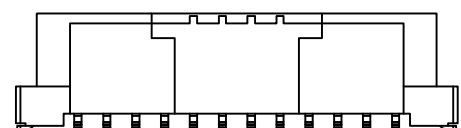
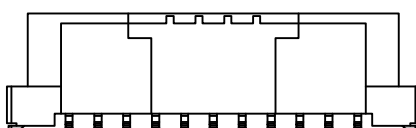
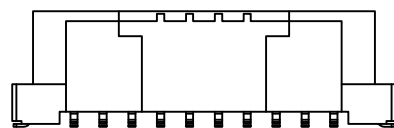
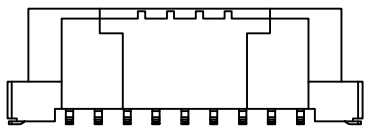
A

A



B

B



C

C

9Circuits

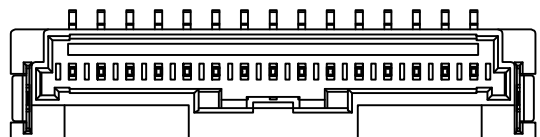
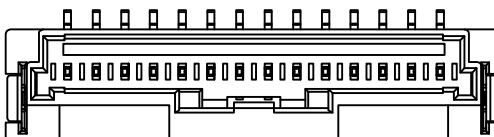
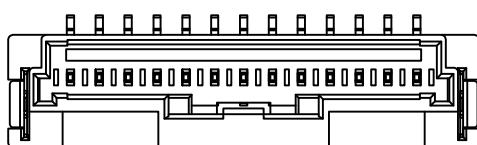
10Circuits

11Circuits

12Circuits

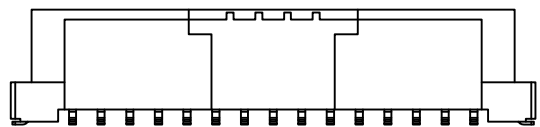
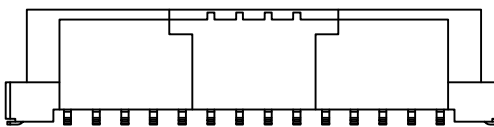
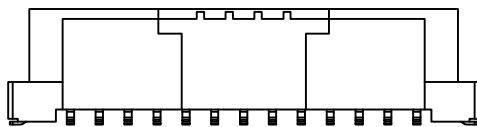
D

D



E

E



13Circuits

14Circuits

15Circuits

F

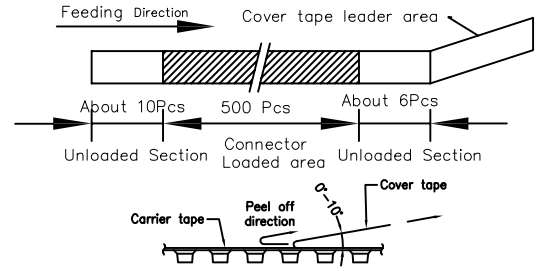
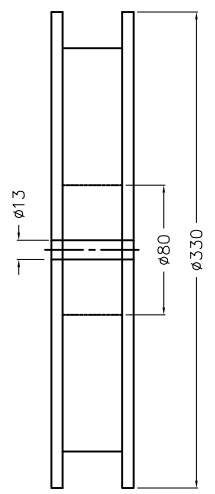
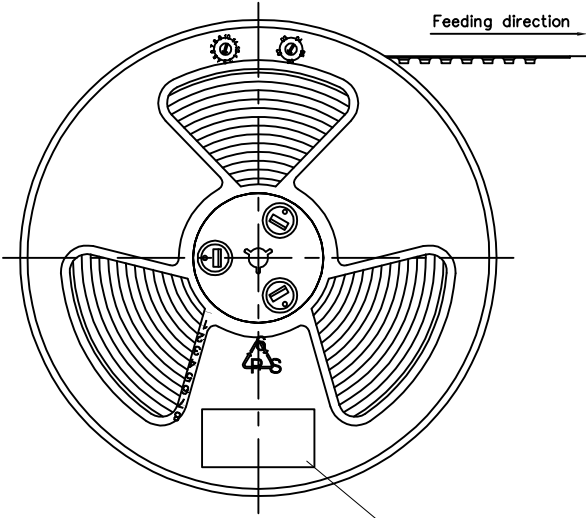
F

<p>THIRD ANGLE PROJECTION</p>	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY	DATE	PART NO.	ITEM NO.	<p>Building Technology Cornerstone</p>
	X. ±0.30	X.* ±5°	LEO	07/AUG/22	FWF20028-SXXSX5NAM	FWF20028	
	X.X ±0.20	X.X* ±2°	CHECKED BY	DATE	TITLE		
	X.XX ±0.15	X.XX* ±1°	GISELLE	07/AUG/22	Wire to Board (Wafer) Pitch 2mm 180° Vertical (SMT)	REV 1	
SCALE	SIZE	X.XXX ±0.10	X.XXX* ±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			MATT	07/AUG/22		

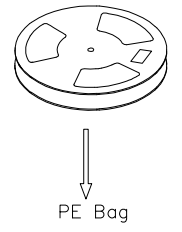
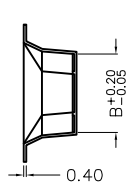
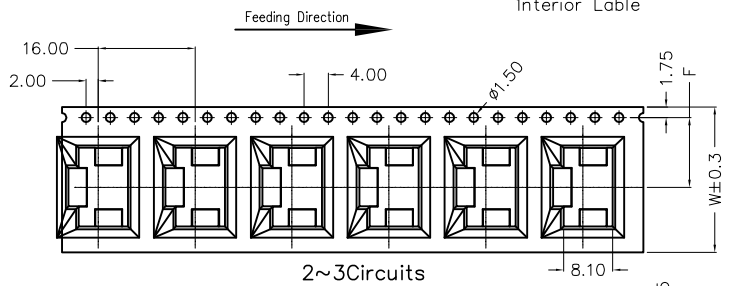
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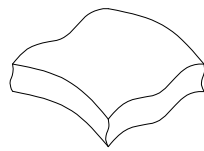
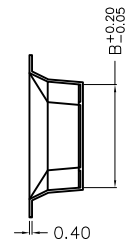
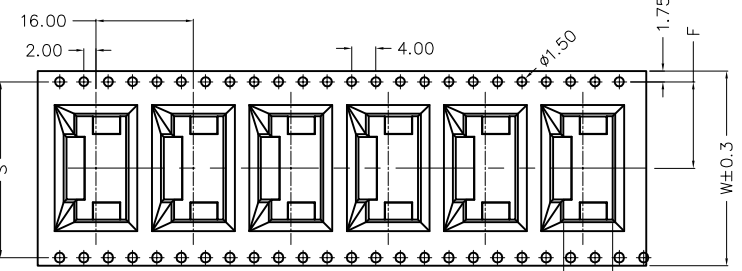
- Note:
- 10 sprocket hole cumulative tolerance  $\pm 0.2$
  - Carrier camber is within 1.0mm in 100mm
  - Material: White Conductive polystyrene Alloy 100% recyclable
  - All dimensions meet EIA-481 requirements
  - Component load per 13" reel: 500 pcs



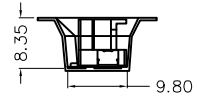
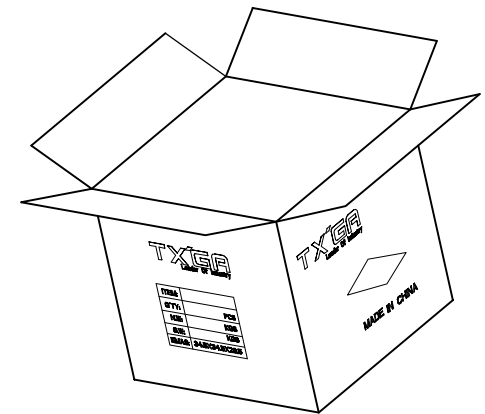
Circuits (n)	Dimensions(mm)				Circuits (n)	Dimensions(mm)			
	W	S	F	B		W	S	F	B
2	24	-	11.5	11	9	44	40.9	20.2	25
3	24	-	11.5	13	10	44	40.9	20.2	27
4	32	28.9	14.2	15	11	44	40.9	20.2	29
5	32	28.9	14.2	17	12	44	40.9	20.2	31
6	32	28.9	14.2	19	13	56	52.9	26.2	33
7	44	40.9	20.2	21	14	56	52.9	26.2	35
8	44	40.9	20.2	23	15	56	52.9	26.2	37



500 pcs/Reel



Drying agent/pcs



 THIRD ANGLE PROJECTION	GENERAL TOLERANCES (UNLESS SPECIFIED)		APPROVE BY	DATE	PART NO.	ITEM NO.	 Building Technology Cornerstone
	X.X ±0.30	X.* ±5°	LEO	07/AUG/22	FWF20028-SXXSX5NAM	FWF20028	
	X.X ±0.20	X.X* ±2°	CHECKED BY	DATE	TITLE		
	X.XX ±0.15	X.XX* ±1°	GISELLE	07/AUG/22	Wire to Board (Wafer) Pitch 2mm 180° Vertical (SMT)		
SCALE	SIZE	X.XXX ±0.10	X.XXX* ±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			MATT	07/AUG/22	REV 1	SHEET NO. 4/4