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LOC

DIST

REVISIONS

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PART NUMBER: 2199172-2

P	LTR	DESCRIPTION	DATE	DWN	APVD
	B2	REVISED ECN-21-119790	29SEP2021	J. J	N. S

Top view of the connector showing dimensions and a pick & place area. Key dimensions include:

- ① *5.00±0.10 (Overall width)
- ② *3.20±0.10 (Pitch between pins)
- ③ 2.20 (Distance from center to pin center)
- Ø2.00 REF PICK & PLACE AREA (Circular area around the center)

RECOMMEND PWB LAYOUT

Dimensions for PWB layout:

- 1.60±0.02 PITCH
- 5.20±0.02 (Overall width)
- 3.30±0.02 (Distance from center to pin center)
- 0.60±0.02 (Pin diameter)

RECOMMEND MATING LAYOUT

Dimensions for mating layout:

- 1.60±0.02 PITCH
- 5.64±0.02 (Overall width)
- 2.06±0.02 (Distance from center to pin center)
- 1.42±0.02 (Pin diameter)

Cross-sectional view of the connector with dimensions:

- ④ 1.60±0.10 PITCH
- ⑤ 0.80±0.10 (Pin diameter)
- ⑥ 0.50±0.05 4 PLC
- ⑦ 0.95±0.03 (Pin length)
- ⑧ 1.60±0.10 (Pin diameter)
- ⑨ 0.40±0.02 4 PLC

NORMAL FORCE CURVE

Normal force curve graph showing Force (N) vs. Distance (mm). The curve shows a linear relationship between force and distance, with a slope of approximately 1.0 N/mm. Key points on the curve are:

- 0.29 N at 0.3 mm
- 0.52 N at 0.5 mm
- 0.70 N at 0.7 mm

Detailed cross-sectional view of the connector with dimensions and working height specifications:

- ⑩ *1.90⁰_{-0.10} (Pin length)
- ⑪ *1.20±0.05 (Pin diameter)
- ⑫ 3.00±0.10 (Pin diameter)
- ⑬ *4.00±0.15 (Pin diameter)
- ⑭ *4.80±0.15 (Pin diameter)
- ⑮ 0.02^{+0.05}_{-0.02} (Pin diameter)
- ⑯ 0.05 REF (Pin diameter)
- ⑰ 0.08 BEFORE REFLOW
- ⑱ 0.08 AFTER REFLOW
- ⑳ 0.10±0.02 (Pin diameter)

 Working height specifications:

- 4.4 REF AT MIN. WORKING HEIGHT
- 4.2 REF AT NOR. WORKING HEIGHT
- 4.0 REF AT MAX. WORKING HEIGHT
- 1.60 WORKING MAX.
- 1.40 WORKING NORMAL
- 1.20 WORKING MIN.

NOTES:

① MATERIAL
TERMINAL: COPPER ALLOY, THICKNESS 0.10mm.
HOUSING: HIGH TEMPERATURE THERMO PLASTIC
UL94V-0 BLACK

② FINISH
TERMINAL: 0.1~0.2 μm GOLD PLATING ON CONTACT AREA,
1.27 MIN. NICKLE UNDER PLATING,
0.025~0.075 μm GOLD PLATING ON SOLDERING AREA

③ COPLANARITY: BEFORE REFLOW 0.08 MAX.; AFTER REFLOW 0.1 MAX.

④ PACKAGING: TAPE & REEL.
DATE CODE: "YWWDS"
YWW = PRODUCTION DATE (YEAR, WEEK, DAY).
S = SHIFT (D=DYA, N=NIGHT)

⑤ CONTACT CAN NOT TOUCH PCB & TAIL WHEN PRESS TO HOUSING SURFACE.
CONTACT CAN NOT EXCEED HOUSING EDGE WHEN PRESS TO HOUSING SURFACE.
* MEANS KEY DIMENSIONS FOR CUSTOMER

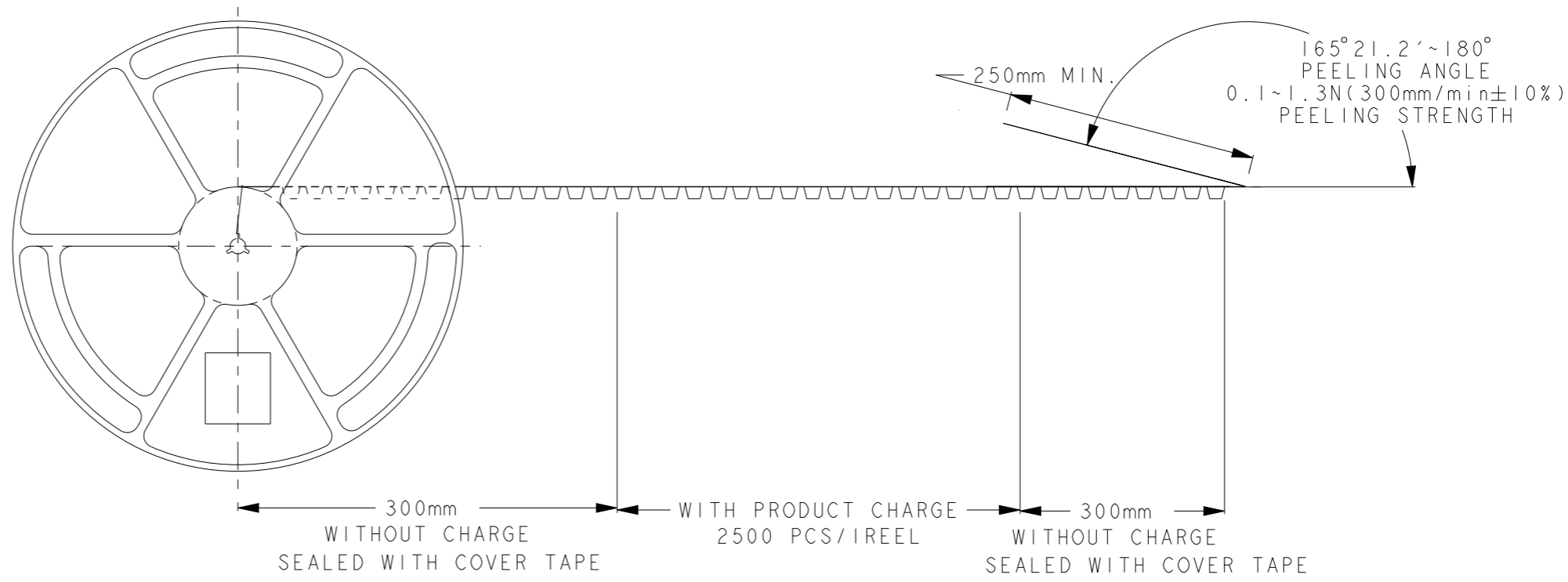
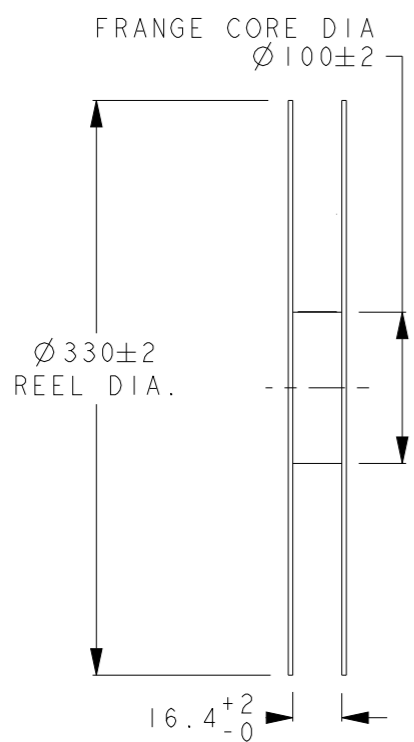
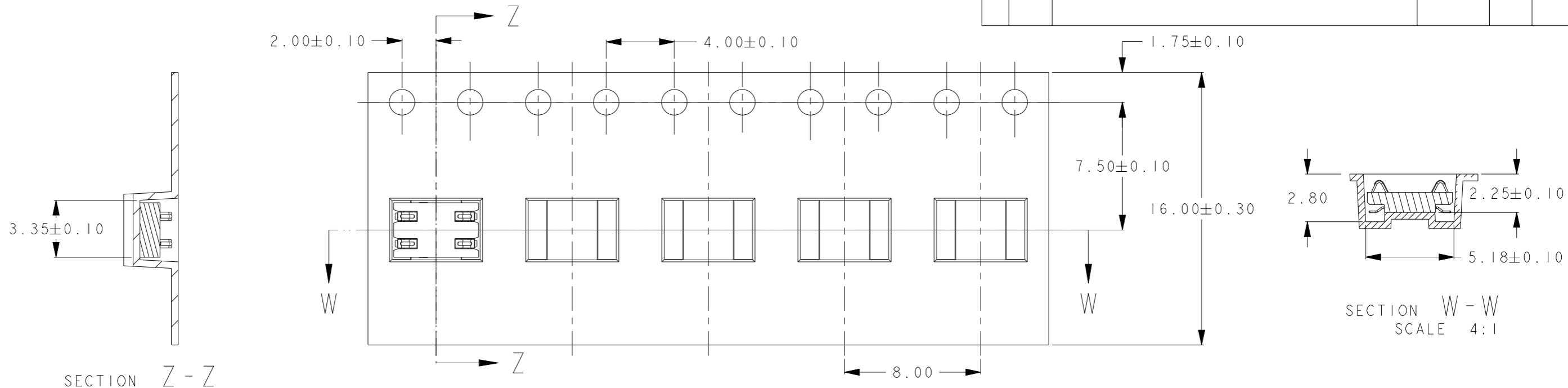
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DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:
mm	±0.15
① PLC	±
② PLC	±
③ PLC	±
④ PLC	±
⑤ ANGLES	±3°
MATERIAL	FINISH
①	②

DWN	13NOV2013
RAY WANG	
CHK	13NOV2013
WENKE HE	
APVD	13NOV2013
WENKE HE	
PRODUCT SPEC	-
APPLICATION SPEC	-
WEIGHT	-
CUSTOMER DRAWING	


		TE Connectivity	
		NAME	
ONE PIECE BtoB CONNECTOR			
4 PINS, 1.6MM PITCH, HI. 4, TWO ROWS			
SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
A300779	G	2199172	
SCALE 20:1		SHEET 1 OF 2	REV B2

1470-19 (3/11)



PART NUMBER: 2199172-2

NOTES:
 1. MATERIAL: P.S CLEAR, 0.4MM THICKNESS
 2. QUANTITY PER REEL: 2500 PIECES

THIS DRAWING IS A CONTROLLED DOCUMENT.		DWN RAY WANG 13NOV2013	 TE Connectivity	
DIMENSIONS: mm		CHK WENKE HE 13NOV2013		
TOLERANCES UNLESS OTHERWISE SPECIFIED: ±		APVD WENKE HE 13NOV2013	NAME ONE PIECE B to B CONNECTOR 4 PINS, 1.6MM PITCH, H1.4, TWO ROWS	
0 PLC ±		PRODUCT SPEC -	RESTRICTED TO -	
1 PLC ±		APPLICATION SPEC -	SIZE A3	CAGE CODE 00779
2 PLC ±		WEIGHT -	DRAWING NO. C-2199172	
3 PLC ±		CUSTOMER DRAWING	SCALE 20:1	SHEET 2 OF 2
4 PLC ±				REV B2
ANGLES ±3°				
FINISH 2				