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RELEASED FOR PUBLICATION

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LOC

DIST

REVISIONS

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PART NUMBER: 2199172-2

ES

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:

- Overall width: 3.20 ± 0.10 mm
- Overall height: 5.00 ± 0.10 mm
- Distance from top edge to centerline: 2.20 mm
- Reference diameter: $\varnothing 2.00$ REF PICK & PLACE AREA
- Centerline text: YWWDS

RECOMMEND PWB LAYOUT

Dimensions for PWB layout:

- Pin pitch: 1.60 ± 0.02 mm
- Distance from top edge to first pin: 5.20 ± 0.02 mm
- Distance between pins: 3.30 ± 0.02 mm
- Distance from bottom edge to first pin: 0.60 ± 0.02 mm

RECOMMEND MATING LAYOUT

Dimensions for mating layout:

- Pin pitch: 1.60 ± 0.02 mm
- Distance from top edge to first pin: 5.64 ± 0.02 mm
- Distance between pins: 2.06 ± 0.02 mm
- Distance from bottom edge to first pin: 1.42 ± 0.02 mm

Cross-sectional view of the connector with dimensions:

- Pin pitch: 1.60 ± 0.10 mm
- Distance from top edge to first pin: 0.80 ± 0.10 mm
- Distance between pins: 0.50 ± 0.05 mm (4 PLC)
- Distance from bottom edge to first pin: 0.95 ± 0.03 mm
- Distance from bottom edge to second pin: 0.40 ± 0.02 mm (4 PLC)
- Distance from bottom edge to third pin: 1.60 ± 0.10 mm

NORMAL FORCE CURVE

Normal force curve graph showing Force (N) vs Distance (mm). The curve shows a linear relationship between force and distance, starting from the origin and reaching approximately 0.70 N at 0.7 mm distance.

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

- Working height ranges: 1.60 WORKING MAX., 1.40 WORKING NORMAL, 1.20 WORKING MIN.
- Dimensions: 4.4 REF AT MIN. WORKING HEIGHT, 4.2 REF AT NOR. WORKING HEIGHT, 4.0 REF AT MAX. WORKING HEIGHT, 3.60 ± 0.15 mm, 1.90 mm, 1.20 ± 0.05 mm, 0.05 REF, 0.08 mm BEFORE REFLOW, 0.08 mm AFTER REFLOW, 0.10 ± 0.02 mm, 3.00 ± 0.10 mm, 4.00 ± 0.15 mm, 4.80 ± 0.15 mm, 0.02 mm, 0.05 mm, 0.10 mm.

NOTES:

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

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

3 COPLANARITY: BEFORE REFLOW 0.08 MAX.; AFTER REFLOW 0.1 MAX.
 4 PACKAGING: TAPE & REEL.
 DATE CODE: "YWWDS"
 YWWD = PRODUCTION DATE (YEAR, WEEK, DAY).
 S = SHIFT (D=DYA, N=NIGHT)

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

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:	TOLERANCES UNLESS OTHERWISE SPECIFIED:
mm	± 0.15
	0 PLC \pm
	1 PLC \pm
	2 PLC \pm
	3 PLC \pm
	4 PLC \pm
	ANGLES $\pm 3^\circ$
MATERIAL	FINISH

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

TE Connectivity

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)

