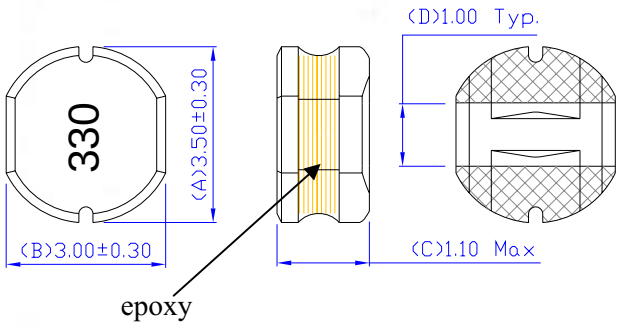
1. Features

1.Low profile very effective in space-conscious applications

2.Low resistance and high energy storage.

2. Dimension



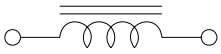
Item	A (mm)	B (mm)	C (mm)	D(mm)
0301L	3.50±0.30	3.00±0.30	1.10 Max	1.0 Typ.

3. Part Numbering

TP	0301L	-	330	K
A	B		C	D

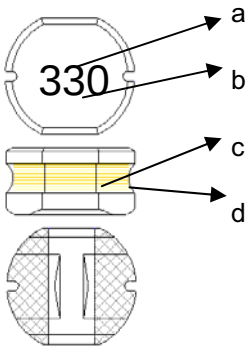
A:Series
B:Dimension AxC
C:Inductance 330=33.0 μH
D:Inductance Tolerance K=±10%, M=±20%

4. Schematic Diagram



5. Materials

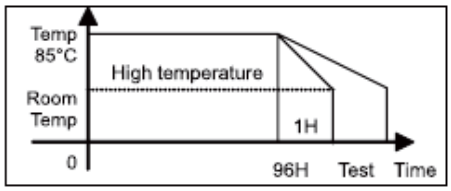
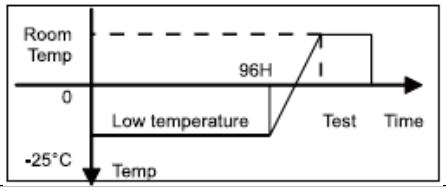
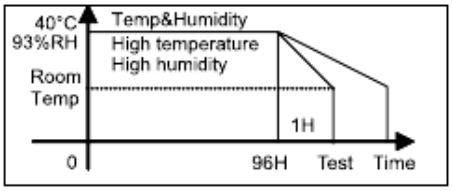
No.	Description	Specification
a.	Marking	
b.	Drum Core	Ferrite Core
c.	Wire	Polysol 155 Wire
d	Adhesive	Single Compound



6. Specification

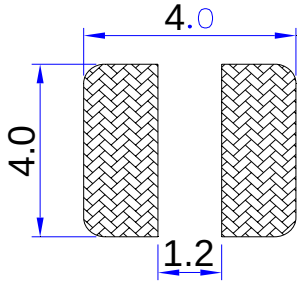
BULLWILL Part No.	Inductance (μH)±20%	DC Resistance (Ω)Max	FLL (@Isat) (μH)Min	Isat Amperes Peak for approximately 30% roll off (@ 20°C).	Irms Amperes for approximately a ΔT of 40°C. above 85°C ambient
TP0301L-R39M	0.39	0.0635	0.2808	2.343	2.572
TP0301L-R68M	0.68	0.0796	0.4896	1.822	2.298
TP0301L-1R0M	1	0.0972	0.72	1.491	2.079
TP0301L-1R2M	1.2	0.1164	0.864	1.262	1.9
TP0301L-1R5M	1.5	0.137	1.08	1.093	1.751
TP0301L-2R2M	2.2	0.1771	1.584	0.965	1.54
TP0301L-2R7M	2.7	0.1993	1.944	0.863	1.452
TP0301L-3R3M	3.3	0.2222	2.376	0.781	1.375
TP0301L-3R9M	3.9	0.2512	2.808	0.713	1.293
TP0301L-4R7M	4.7	0.3479	3.384	0.656	1.099
TP0301L-5R6M	5.6	0.3799	4.032	0.607	1.051
TP0301L-6R8M	6.8	0.4548	4.896	0.529	0.961
TP0301L-8R2M	8.2	0.5593	5.904	0.497	0.867
TP 0301L-100K	10	0.6437	8.1	0.443	0.808
TP 0301L-120K	12	0.7326	9.72	0.4	0.757
TP 0301L-150K	15	0.8262	12.15	0.364	0.713
TP 0301L-180K	18	1.1527	14.58	0.322	0.604
TP 0301L-220K	22	1.2744	17.82	0.298	0.574
TP 0301L-270K	27	1.6483	21.87	0.269	0.505
TP 0301L-330K	33	1.8533	26.73	0.245	0.476
TP 0301L-390K	39	2.4439	31.59	0.225	0.415
TP 0301L-470K	47	3.1843	38.07	0.202	0.363
TP 0301L-560K	56	3.5723	45.36	0.184	0.343
TP 0301L-680K	68	3.9752	55.08	0.169	0.325
TP 0301L-820K	82	4.5252	66.42	0.153	0.305
TP 0301L-101K	100	5.9396	81	0.138	0.266
TP 0301L-121K	120	6.6233	97.2	0.127	0.252
TP 0301L-151K	150	9.0352	121.5	0.113	0.216
TP 0301L-181K	180	10.1647	145.8	0.103	0.203
TP 0301L-221K	220	13.5631	178.2	0.094	0.176
TP 0301L-271K	270	15.6056	218.7	0.084	0.164
TP 0301L-331K	330	17.7539	267.3	0.076	0.154

7. Reliability Test Conditions

Item	Required Characteristics	Test Method / Condition
Environmental tests		
High temperature Storage test Reference documents: MIL-STD-202G Method 108A	1.No case deformation or change in appearance. 2.ΔL/L≦10% ΔL/L≦30% (Close Magnetic Circuit) 3.ΔQ/Q≦30% 4.ΔDCR/DCR≦10%	Temperature: 85±2℃ Time : 96±2 hours Tested not less than 1 hour, nor more than 2 hours at room temperature. 
Low temperature Storage test Reference documents: IEC 68-2-1A 6.1 6.2		Temperature: -25±2℃ Time : 96±2 hours Tested not less than 1 hour, nor more than 2 hours at room temperature. 
Humidity Test Reference documents: MIL-STD-202G		1. Dry oven at a temperature of 40° ±5℃ for 24 hours. 2. Measurements At the end of this period. 3. Exposure:Temperature: 40±2℃, Humidity: 93±3%RH Time :96±2 hours 4. Tested while the specimens are still in the chamber 5. Tested (Second Time) not less than 1 hour, nor more than 2 hours at room temperature. 

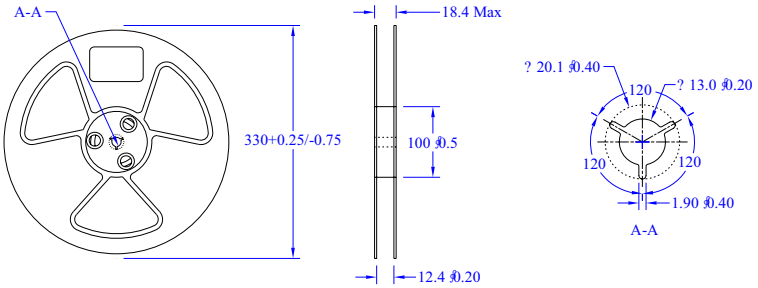
8.1. Design of Land Pattern And Solderability

Terminations to be well soldered after immersion in a Sn(99.3)/Cu(0.7) tin/lead solder bath at 245 ± 5℃ for 5 ± 1 seconds.

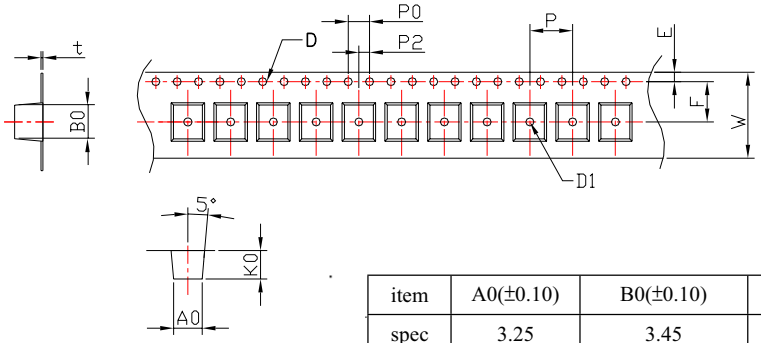


8. Packaging Information

8-1. Reel Dimension & Tape Dimension

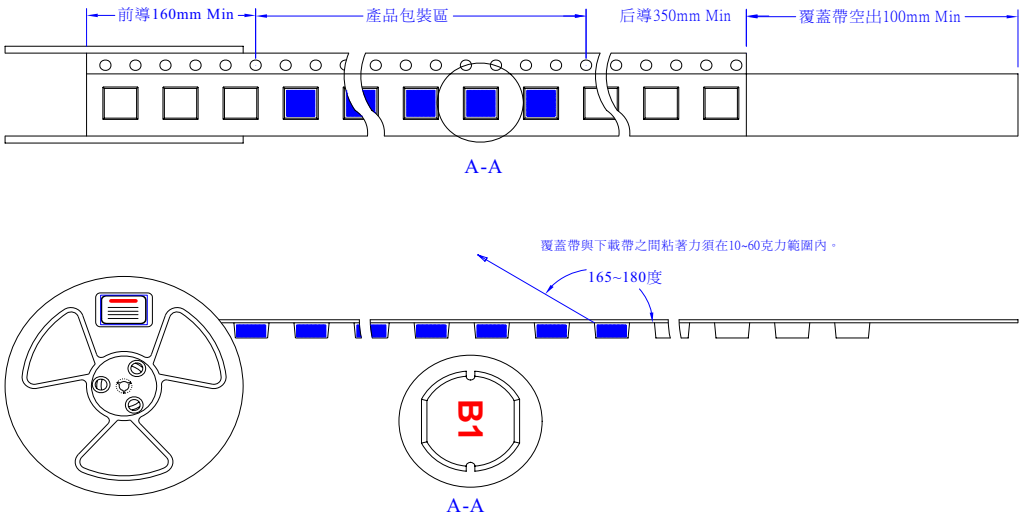


8.2. Tape Dimension (Unit:mm)



item	A0(±0.10)	B0(±0.10)	K0(±0.10)		t(±0.05)	W(±0.30)
spec	3.25	3.45	1.30		0.30	12.0
item	P0(±0.10)	P(±0.10)	P2(±0.10)	E(±0.10)	F(±0.10)	D(±0.05)
spec	4.0	8.0	2.0	1.75	5.5	1.50

8.3. Packaging Specification



8.4. Packaging Quantity

Type	Pcs / Reel	Inner box	Middle box	Carton
TP0301L	4000	20,000	40,000	40,000

Room Temp. (℃)	Room Humidity (%)	Room atm (hPa)	Tearing Speed mm/min
5~35	45~85	860~1060	300