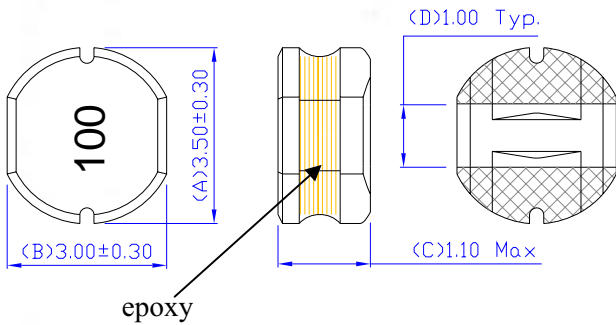


1. Features

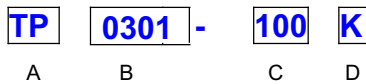
1. Low profile very effective in space-conscious applications
2. Low resistance and high energy storage.

2. Dimension



Item	A (mm)	B (mm)	C (mm)	D(mm)
0301	3.50±0.30	3.00±0.30	1.30 Max	1.0 Typ.

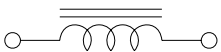
3. Part Numbering



A:Series
 B:Dimension Ax C
 C:Inductance
 D:Inductance Tolerance

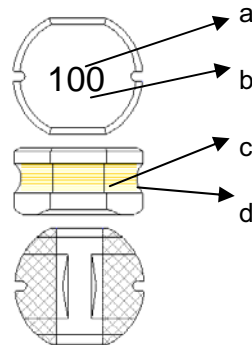
100=100 μ H
 K=±10%, M=±20%

4. Schematic Diagram



5. Materials

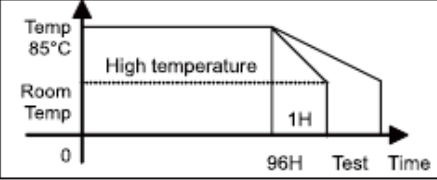
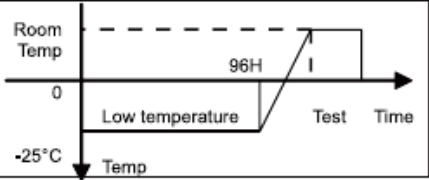
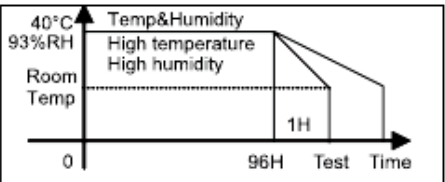
No.	Description	Specification
a.	Marking	
b.	Drum Core	Ferrite Core
c.	Wire	Polysol 155 Wire
d.	Adhesive	Single Compound



6. Specification

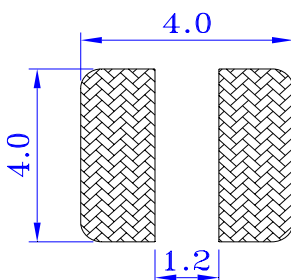
DGBullWill Part No.	Inductance (μH) $\pm 20\%$	DC Resistance (Ω)Max	FLL (@Isat) (μH)Min	Isat Amperes Peak for approximately 30% roll off (@ 20°C).	Irms Amperes for approximately a ΔT of 40°C. above 85°C ambient
TP0301-R39M	0.39	0.0635	0.2808	2.643	2.572
TP0301-R68M	0.68	0.0796	0.4896	2.056	2.298
TP0301-1R0M	1	0.0972	0.72	1.682	2.079
TP0301-1R4M	1.4	0.1164	1.008	1.423	1.9
TP0301-1R8M	1.8	0.137	1.296	1.233	1.751
TP0301-2R2M	2.2	0.1771	1.584	1.088	1.54
TP0301-2R7M	2.7	0.1993	1.944	0.974	1.452
TP0301-3R3M	3.3	0.2222	2.376	0.881	1.375
TP0301-3R9M	3.9	0.2512	2.808	0.804	1.293
TP0301-4R7M	4.7	0.3479	3.384	0.74	1.099
TP0301-5R6M	5.6	0.3799	4.032	0.685	1.051
TP0301-6R8M	6.8	0.4202	4.896	0.638	1
TP0301-8R2M	8.2	0.5593	5.904	0.561	0.867
TP0301-100K	10	0.6437	8.1	0.5	0.808
TP0301-120K	12	0.7326	9.72	0.451	0.757
TP0301-150K	15	0.8262	12.15	0.411	0.713
TP0301-180K	18	1.0938	14.58	0.378	0.62
TP0301-220K	22	1.1527	17.82	0.363	0.604
TP0301-270K	27	1.5748	21.87	0.314	0.516
TP0301-330K	33	1.776	26.73	0.285	0.486
TP0301-390K	39	2.4439	31.59	0.253	0.415
TP0301-470K	47	2.8856	38.07	0.247	0.382
TP0301-560K	56	3.2604	45.36	0.223	0.359
TP0301-680K	68	3.8954	55.08	0.195	0.328
TP0301-820K	82	4.1824	66.42	0.183	0.317
TP0301-101K	100	5.3413	81	0.17	0.28
TP0301-121K	120	6.197	97.2	0.15	0.26
TP0301-151K	150	8.509	121.5	0.133	0.222
TP0301-181K	180	9.8244	145.8	0.119	0.207
TP0301-221K	220	12.4314	178.2	0.113	0.184
TP0301-271K	270	14.5711	218.7	0.1	0.17
TP0301-331K	330	17.1259	267.3	0.089	0.157

7. Reliability Test Conditions

Item	Required Characteristics	Test Method / Condition
Environmental tests		
High temperature Storage test Reference documents: MIL-STD-202G Method 108A		Temperature: 85±2°C 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	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: -25±2°C 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°C for 24 hours. 2. Measurements At the end of this period. 3. Exposure: Temperature: 40±2°C, 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. 

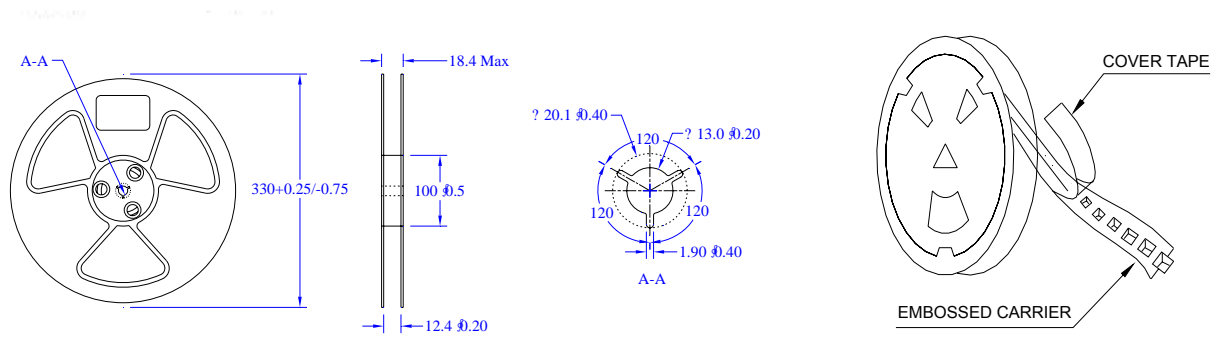
8.1. Design of Land Pattern And Solderability

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

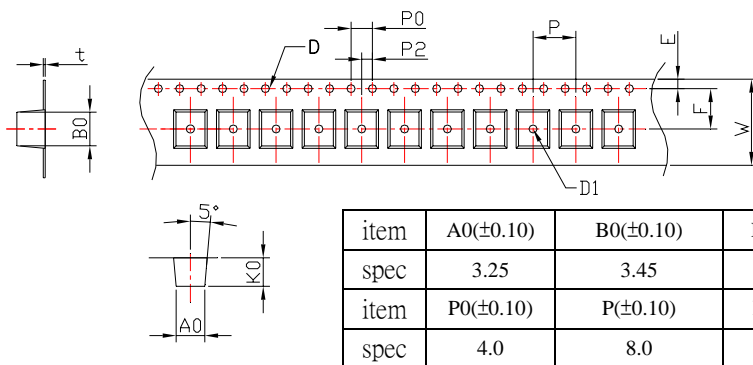


9. Packaging Information

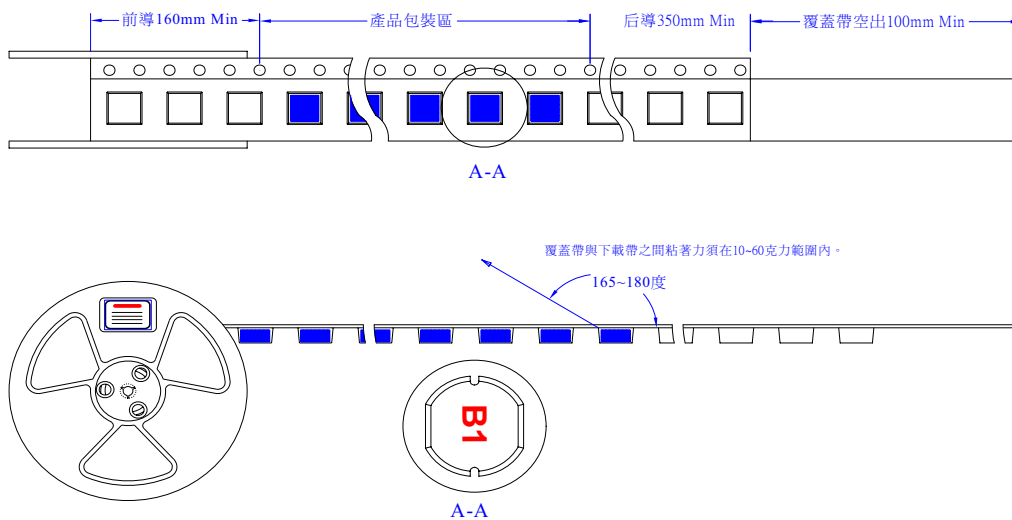
9-1. Reel Dimension & Tape Dimension



9.2. Tape Dimension (Unit:mm)



9.3. Packaging Specification



9.4. Packaging Quantity

Type	Pcs / Reel	Inner box	Middle box	Carton
TP0301	4000	20,000	40,000	40,000

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