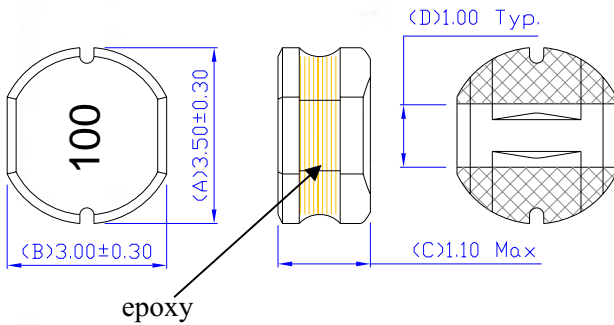


## 1. Features

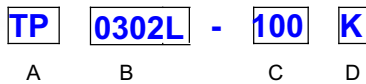
1. Low profile very effective in space-conscious applications
2. Low resistance and high energy storage.

## 2. Dimension



Item	A (mm)	B (mm)	C (mm)	D(mm)
<b>0302L</b>	$3.50 \pm 0.30$	$3.00 \pm 0.30$	1.10 Max	1.0 Typ.

## 3. Part Numbering



A:Series

B:Dimension      Ax C

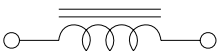
C:Inductance

D:Inductance Tolerance

100=10.0  $\mu$  H

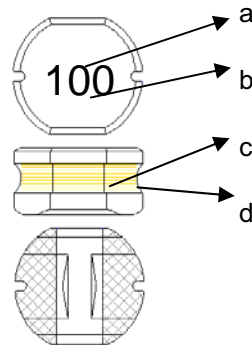
K=±10%, M=±20%

## 4. Schematic Diagram



## 5. Materials

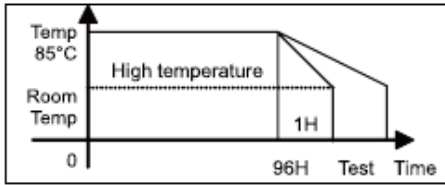
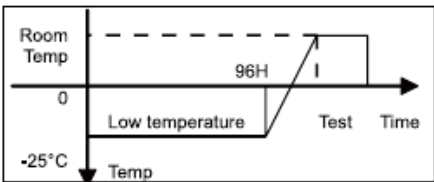
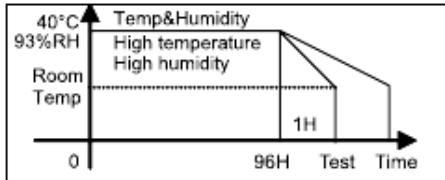
No.	Description	Specification
a.	Marking	
b.	Drum Core	Ferrite Core
c.	Wire	Polysol 155 Wire
d.	Adhesive	Single Compound



## 6. Specification

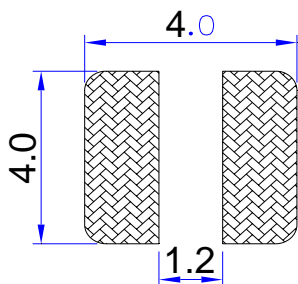
DGBullWill Part No.	Inductance ( $\mu\text{H}$ ) $\pm 20\%$	DC Resistance ( $\Omega$ )Max	FLL (@Isat) ( $\mu\text{H}$ )Min	Isat Amperes Peak for approximately 30% roll off (@ 20°C).	Irms Amperes for approximately a $\Delta\text{T}$ of 40°C. above 85°C ambient
TP0302L-R39M	0.39	0.0238	0.2808	3.033	4.02
TP0302L-R68M	0.68	0.0358	0.4896	2.482	3.277
TP0302L-1R0M	1	0.0424	0.72	2.1	3.011
TP0302L-1R2M	1.2	0.0496	0.864	1.82	2.784
TP0302L-1R5M	1.5	0.0658	1.08	1.606	2.416
TP0302L-1R8M	1.8	0.0748	1.296	1.437	2.266
TP0302L-2R2M	2.2	0.0845	1.584	1.3	2.132
TP0302L-2R7M	2.7	0.0947	1.944	1.187	2.014
TP0302L-3R3M	3.3	0.102	2.376	1.092	1.94
TP0302L-3R9M	3.9	0.13	2.808	1.011	1.719
TP0302L-4R7M	4.7	0.1566	3.384	0.881	1.566
TP0302L-5R6M	5.6	0.1966	4.032	0.827	1.398
TP0302L-6R8M	6.8	0.2248	4.896	0.738	1.307
TP0302L-8R2M	8.2	0.3048	5.904	0.666	1.122
TP0302L-100K	10	0.3412	8.1	0.607	1.061
TP0302L-120K	12	0.4552	9.72	0.557	0.919
TP0302L-150K	15	0.5198	12.15	0.496	0.859
TP0302L-180K	18	0.5687	14.58	0.463	0.822
TP0302L-220K	22	0.7916	17.82	0.407	0.696
TP0302L-270K	27	0.8779	21.87	0.374	0.661
TP0302L-330K	33	1.2088	26.73	0.337	0.564
TP0302L-390K	39	1.3758	31.59	0.307	0.528
TP0302L-560K	56	1.9252	45.36	0.26	0.447
TP0302L-680K	68	2.1768	55.08	0.233	0.42
TP0302L-820K	82	2.942	66.42	0.215	0.361
TP0302L-101K	100	3.3626	81	0.194	0.338
TP0302L-121K	120	4.4836	97.2	0.176	0.293
TP0302L-151K	150	5.1383	121.5	0.158	0.273
TP0302L-181K	180	6.6925	145.8	0.144	0.24
TP0302L-221K	220	7.6842	178.2	0.131	0.224
TP0302L-271K	270	8.6992	218.7	0.118	0.21
TP0302L-331K	330	11.4559	267.3	0.106	0.183
TP0302L-391K	390	12.7072	315.9	0.098	0.174
TP0302L-471K	470	14.1872	380.7	0.09	0.165
TP0302L-561K	560	18.6529	453.6	0.082	0.143
TP0302L-681K	680	21.1706	550.8	0.074	0.135
TP0302L-821K	820	28.4803	664.2	0.068	0.116
TP0302L-102K	1000	32.604	810	0.061	0.109

## 7. Reliability Test Conditions

Item	Required Characteristics	Test Method / Condition
<b>Environmental tests</b>		
High temperature Storage test  Reference documents: MIL-STD-202G Method 108A		Temperature: $85\pm 2^{\circ}\text{C}$ Time : $96\pm 2$ 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. $\Delta L/L \leq 10\%$ $\Delta L/L \leq 30\%$ (Close Magnetic Circuit) 3. $\Delta Q/Q \leq 30\%$ 4. $\Delta DCR/DCR \leq 10\%$	Temperature: $-25\pm 2^{\circ}\text{C}$ Time : $96\pm 2$ 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 $40^{\circ} \pm 5^{\circ}\text{C}$ for 24 hours. 2. Measurements At the end of this period. 3. Exposure: Temperature: $40\pm 2^{\circ}\text{C}$ , Humidity: $93\pm 3\% \text{RH}$ Time : $96\pm 2$ 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. 

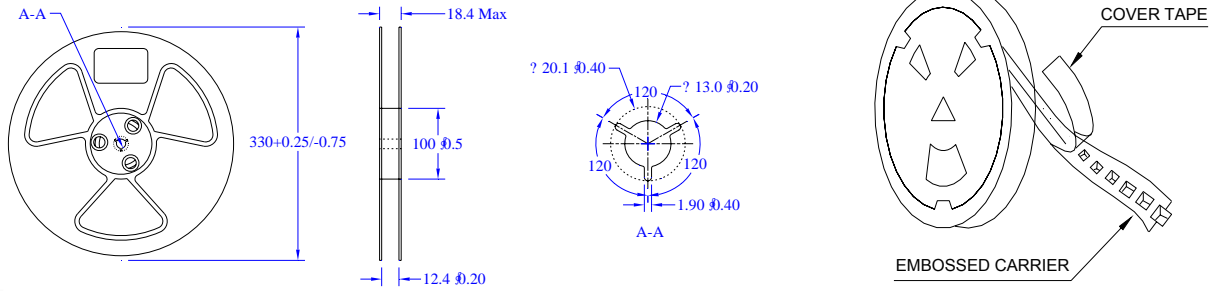
### 8.1. Design of Land Pattern And Solderability

Terminations to be well soldered after immersion in a Sn(99.3)/Cu(0.7) tin/lead solder bath at  $245 \pm 5^{\circ}\text{C}$  for  $5 \pm 1$  seconds.

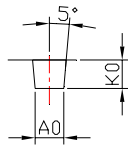
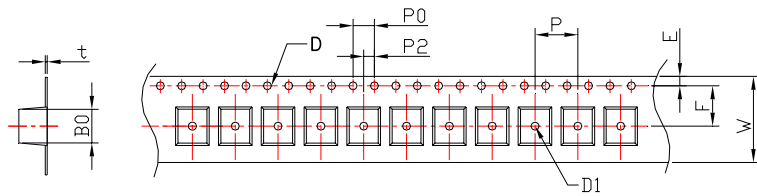


## 9. Packaging Information

### 9-1. Reel Dimension & Tape Dimension

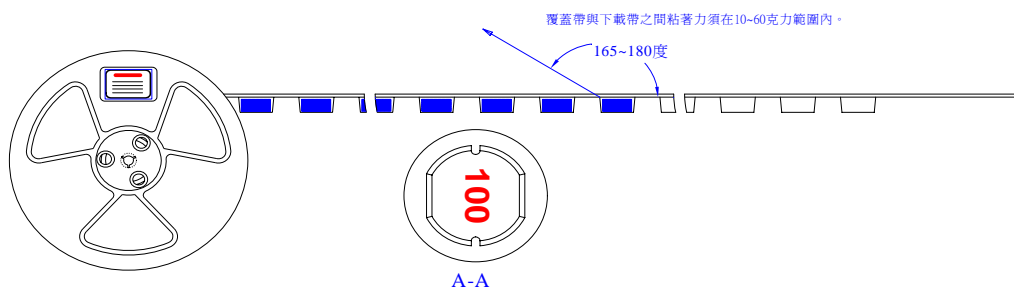
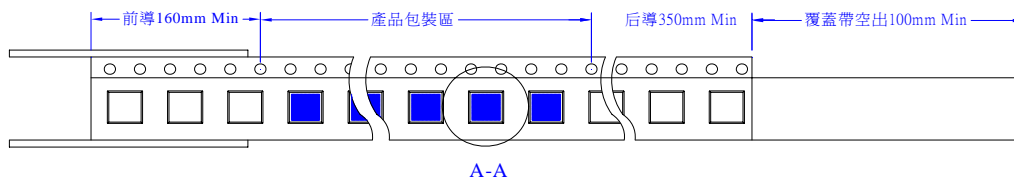


### 9.2. Tape Dimension (Unit:mm)



item	A0(±0.10)	B0(±0.10)	K0(±0.10)		t(±0.05)	W(±0.30)
spec	3.25	3.45	1.65		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

### 9.3. Packaging Specification



### 9.4. Packaging Quantity

Type	Pcs / Reel	Inner box	Middle box	Carton
TP0302L	3000	15,000	30,000	30,000