

SMD POWER INDUCTOR

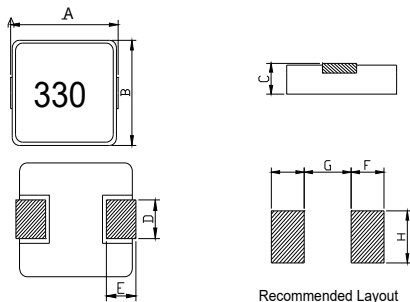
All test data is referenced to 25 °C ambient.
Inductance measure condition at 100kHz, 1.0V.
Rated current(Isat or Irms, whichever is smaller.
Saturation current(Isat): the actual value of DC current when the inductance decrease approximately 30% of its initial value.
Temperature rise current(Irms): the actual value of DC current when the temperature rise is $\Delta T \leq 40^{\circ}\text{C}$ ($T_a = 25^{\circ}\text{C}$) .
Operating temperature range: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (Including self-heating).
Storage temperature range: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (on board)



Electrical Specifications@25°C

Part Number	Impedance (μH)	DC Resistance (m Ω) max.	Saturation current (Isat)	Temperature rise current (Irms)	
			(A)Typ.	(A)Typ.	
0503A-330M H	$33 \pm 20\%$	350.0	1.8	1.3	

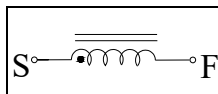
MECHANICAL



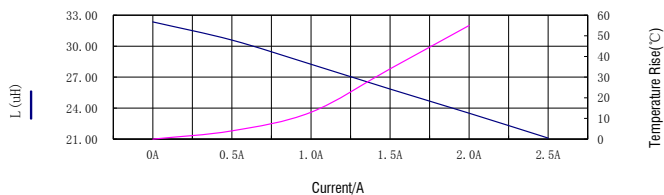
Electrode Coplanarity: 0.1mm Max.

POSITION	A	B	C	D	E	F	G	H
DIMENSION	5.7 ± 0.30	5.1 ± 0.3	3.0Max	2.3 ± 0.3	1.2 ± 0.3	1.9	2.2	2.5

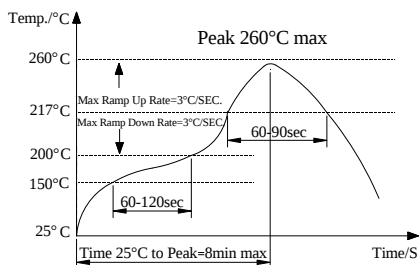
SCHEMATICS



CURRENT CHARACTERISTIC



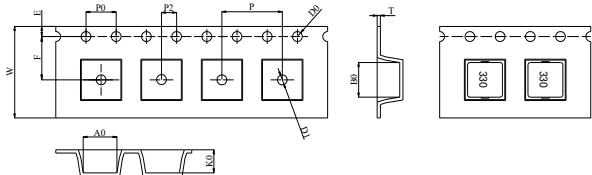
MECHANICAL PERFORMANCE TEST



CURRENT CHARACTERISTIC

L/ μH	32.35	30.59	28.25	25.85	23.51	21.10	
TR/°C	0	4	13	34	45		
Current/A	0A	0.5A	1.0A	1.5A	2.0A	2.5A	

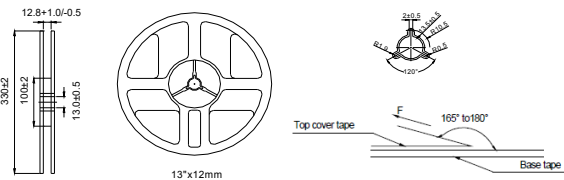
TAPING AND PACKING



ITEM	W	A0	B0	K0	P	F	E	D0	D1	P0	P2	T
DIM	16.00 $+0.3$ -0.3	5.4 $+0.1$ -0.1	6.0 $+0.1$ -0.1	3.1 $+0.1$ -0.1	8.0 $+0.1$ -0.1	7.5 $+0.1$ -0.1	1.75 $+0.1$ -0.1	1.50 $+0.1$ -0.0	1.50 $+0.1$ -0.0	4.00 $+0.1$ -0.1	2.00 $+0.1$ -0.1	0.40 $+0.05$ -0.05

Quantity (pcs):
2000 PCS PER REEL
3 REELS PER CARTON
6000PCS PER CARTON

Reel



Dimensions in mm