

SMD POWER INDUCTOR

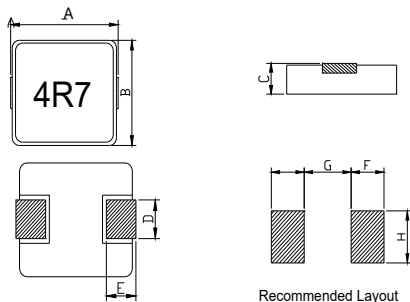
All test data is referenced to 25 °C ambient.
Inductance measure condition at 100kHz, 1.0V.
Rated current(Isat or Irms, whichever is smaller).
Saturation current(Isat): the actual value of DC current when the inductance decrease approximately 30% of its initial value.
Temperature rise current(Irms): 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.	
1005A-4R7M H	$4.7 \pm 20\%$	14.0	15.0	11.0	

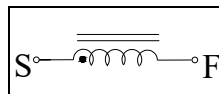
MECHANICAL



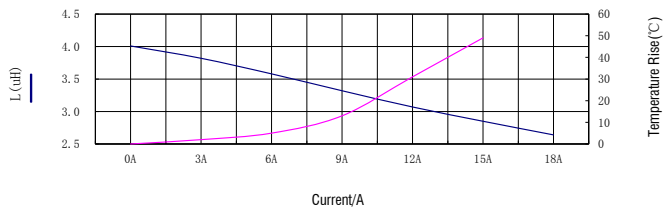
Electrode Coplanarity: 0.1mm Max.

POSITION	A	B	C	D	E	F	G	H
DIMENSION	11.6MAX	10.2 ± 0.3	5.0MAX	3.0 ± 0.3	2.5 ± 0.5	4.1	5.4	4.1

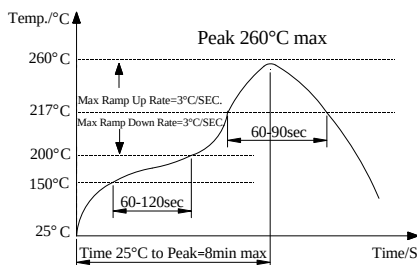
SCHEMATICS



CURRENT CHARACTERISTIC



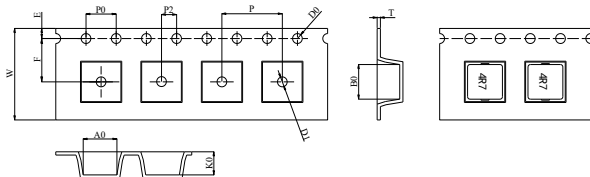
MECHANICAL PERFORMANCE TEST



CURRENT CHARACTERISTIC

L/ μH	4.01	3.82	3.58	3.32	3.07	2.85	2.64
TR/°C	0	2	5	13	31	49	
Current/A	0A	3.0A	6.0A	9.0A	12.0A	15.0A	18.0A

TAPING AND PACKING

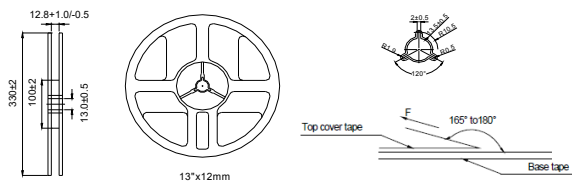


ITEM	W	A0	B0	K0	P	F	E	D0	D1	P0	P2	T
DIM	24.00 +0.3 -0.3	10.4 +0.1 -0.1	11.6 +0.1 -0.1	5.2 +0.1 -0.1	16.0 +0.1 -0.1	11.5 +0.1 -0.1	1.75 +0.1 -0.1	1.50 +0.1 -0.0	1.50 +0.1 -0.0	4.00 +0.1 -0.1	2.00 +0.1 -0.1	0.40 +0.05 -0.05

Quantity (pcs):

500 PCS PER REEL
3 REELS PER CARTON
1500PCS PER CARTON

Reel



Dimensions in mm