

# SMD POWER INDUCTOR

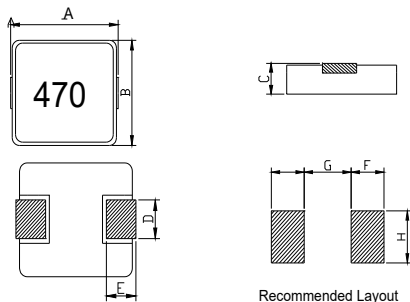
All test data is referenced to 25 °C ambient.  
Inductance measure condition at 100kHz, 1.0V.  
Rated current(Isat or Irms, whichever is smaller.  
Saturation current(Isat): the actual value of DC current when the inductance decrease approximately 30% of its initial value.  
Temperature rise current(Irms):the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



## Electrical Specifications@25°C

| Part Number  | Impedance<br>( $\mu\text{H}$ ) | DC<br>Resistance<br>(m $\Omega$ ) max. | Saturation current<br>(Isat) | Temperature rise current<br>(Irms) |  |
|--------------|--------------------------------|----------------------------------------|------------------------------|------------------------------------|--|
|              |                                |                                        | (A)Typ.                      | (A)Typ.                            |  |
| 1005A-470M H | 47 $\pm$ 20%                   | 190.0                                  | 6.0                          | 3.0                                |  |

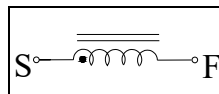
## MECHANICAL



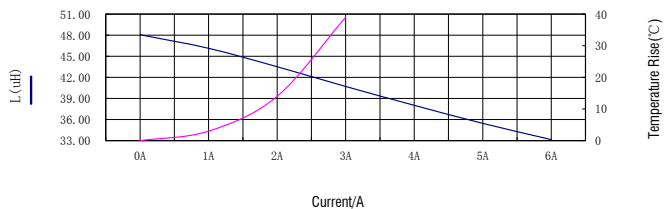
Electrode Coplanarity:0.1mm Max.

| POSITION  | A       | B              | C      | D             | E             | F   | G   | H   |
|-----------|---------|----------------|--------|---------------|---------------|-----|-----|-----|
| DIMENSION | 11.6MAX | 10.2 $\pm$ 0.3 | 5.0Max | 3.0 $\pm$ 0.3 | 2.5 $\pm$ 0.5 | 4.1 | 5.4 | 4.1 |

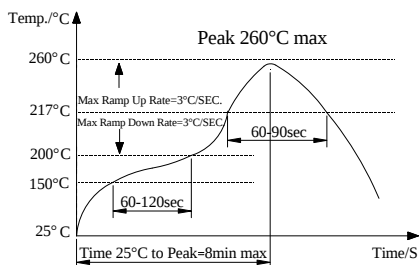
## SCHEMATICS



## CURRENT CHARACTERISTIC



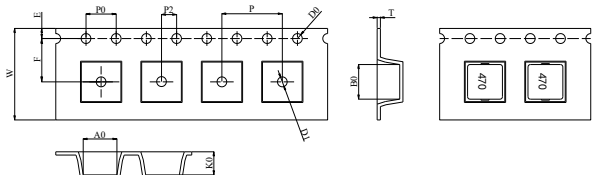
## MECHANICAL PERFORMANCE TEST



CURRENT CHARACTERISTIC

| L/ $\mu\text{H}$ | 48.07 | 46.14 | 43.52 | 40.71 | 38.03 | 35.46 | 33.15 |
|------------------|-------|-------|-------|-------|-------|-------|-------|
| TR/°C            | 0     | 3     | 14    | 39    |       |       |       |
| Current/A        | 0A    | 1.0A  | 2.0A  | 3.0A  | 4.0A  | 5.0A  | 6.0A  |

## TAPING AND PACKING

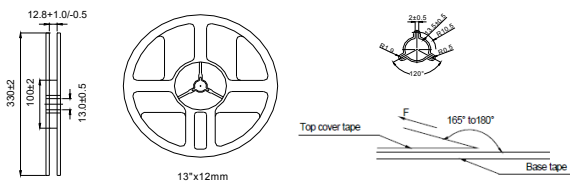


| ITEM | W                     | A0                   | B0                   | K0                  | P                    | F                    | E                    | D0                   | D1                   | P0                   | P2                   | T                      |
|------|-----------------------|----------------------|----------------------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

### Quantity (pcs):

500 PCS PER REEL  
2 REELS PER CARTON  
1000PCS PER CARTON

## Reel



Dimensions in mm