



# SMD HIGH POWER INDUCTOR



## HR 1571 0310/0312/0315/0320 Series

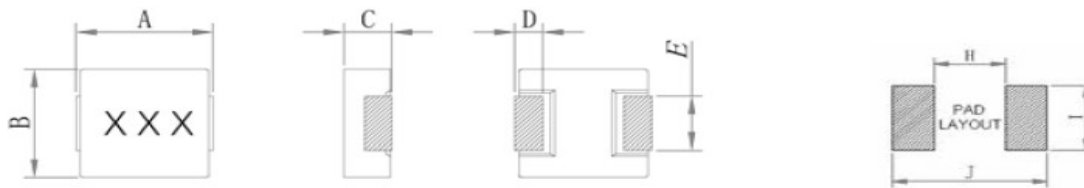
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### Applications:

- DC/DC converter fo CPU .
- LCD displays,HDDs,etc.
- Thin types on-board power supply module for exchanger.
- Saturation Current (Isat):The current will cause L to drop approximately 30% typical.
- Temperature Rise Current (Irms):The current will be cause the temperature coil rise approximately  $\Delta t=40^{\circ}\text{C}$
- Operating temperature:  $-40^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$
- All parts meet ROHS compliance

### Shape and Dimensions



| MODEL                       | A       | B       | C       | D       | E       | H   | I   | J   |
|-----------------------------|---------|---------|---------|---------|---------|-----|-----|-----|
| <a href="#">HR1571 0310</a> | 3.4±0.2 | 3.0±0.2 | 0.8±0.2 | 0.7±0.3 | 1.3±0.2 | 1.2 | 2.0 | 4.2 |
| <a href="#">HR1571 0312</a> | 3.4±0.2 | 3.0±0.2 | 1.0±0.2 | 0.7±0.3 | 1.3±0.2 | 1.2 | 2.0 | 4.2 |
| <a href="#">HR1571 0315</a> | 3.4±0.2 | 3.0±0.2 | 1.3±0.2 | 0.7±0.3 | 1.3±0.2 | 1.2 | 2.0 | 4.2 |
| <a href="#">HR1571 0320</a> | 3.4±0.2 | 3.0±0.2 | 1.8±0.2 | 0.7±0.3 | 1.3±0.2 | 1.2 | 2.0 | 4.2 |

• All measures are in mm.

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- Low loss realized with low DCR.
- Referenced ambient at  $20^{\circ}\text{C}$ .
- Test Condition : 1MHz, 1.0Vrms.
- I sat(Typ) : DC current (a) that will cause L0 to drop approximately 30 %.
- I sat(Max) : DC current (a) that will cause L0 to drop 30 % max.
- I rms(Typ) : DC current (a) that will cause an approximate  $\Delta T$  of  $40^{\circ}\text{C}$ .
- I rms(Max) : DC current (a) that will cause an  $\Delta T$  of  $40^{\circ}\text{C}$  max.

### Product Identification

**HR 1571**

•(1)

**0310**

•(2)

**1R**

•(3)

**M**

•(4)

- (1) Series: High Power Inductors.
- (2) Dimensions: 0310 is size.
- (3) Inductance:1R0 for 1.0uH.
- (4) Inductance tolerance:M:±20%.