



# WIRE WOUND SMD POWER INDUCTOR

## HR 1595 4532/5650/5650 Series



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### Applications:

- DC/DC converter for 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 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       | E       | F       | G   | H   | I   | J   |
|------------------------------|---------|---------|---------|---------|---------|-----|-----|-----|-----|
| <a href="#">HR 1595 4532</a> | 4.5±0.2 | 3.2±0.2 | 3.2±0.2 | 2.6±0.2 | 0.5     | 0.8 | 2.8 | 1.5 | 3.0 |
| <a href="#">HR 1595 5650</a> | 5.6±0.2 | 5.0±0.2 | 4.0±0.2 | 4.0±0.2 | 0.7±0.1 | 1.9 | 4.5 | 2.0 | 4.0 |
| <a href="#">HR 1595 5650</a> | 5.6±0.2 | 5.0±0.2 | 3.0±0.2 | 4.0±0.2 | 0.7±0.1 | 1.4 | 4.5 | 2.0 | 4.0 |

- All measures are in mm.
- Wire wound SMD inductors.
- Low loss realized with low DCR.
- Shielded construction.
- 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.
- SMD 2520VP / 3225VP / 3225 VH are low RDC.

### Product Identification

HR 1595                      .4532                      1R0                      M  
 •(1)                                      •(2)                                      •(3)                                      •(4)

- (1) Series: ultra High Power Inductors.
- (2) Dimensions: Style 4532
- (3) Inductance: 1.0uH(1R0) for 10uH.
- (4) Inductance tolerance:M:±20%.