

# Low Profile SMD Power Inductor



## Model HA74

### Features:

- Operating Temperature Range –50°C to +155°C
- Temperature Rise, Maximum 40°C
- RoHS Compliant
- AEC-Q200 Certified



 All parts are Pb-free and comply with EU RoHS Directive 2011/65/EU with amendment (EU) 2015/863 (RoHS 3)

### Specifications @ 25°C

| Part Number    | Inductance<br>$\mu\text{H}^{(1)}$ |       |       | Heating<br>Current <sup>(2)</sup><br>(A)<br>Typ | Isat <sup>(3)</sup><br>(Adc)<br>Typ | DCR <sup>(4)</sup><br>(m $\Omega$ ) |       |       |
|----------------|-----------------------------------|-------|-------|-------------------------------------------------|-------------------------------------|-------------------------------------|-------|-------|
|                | Min                               | Typ   | Max   |                                                 |                                     | Min                                 | Typ.  | Max   |
| HA74-054R7LFTR | 3.76                              | 4.70  | 5.64  | 3.60                                            | 2.90                                | 60.0                                | 74.0  | 88.0  |
| HA74-055R6LFTR | 4.48                              | 5.60  | 6.72  | 3.50                                            | 2.80                                | 72.0                                | 81.0  | 90.0  |
| HA74-056R8LFTR | 5.44                              | 6.80  | 8.16  | 3.00                                            | 2.50                                | 106.0                               | 116.0 | 126.0 |
| HA74-05100LFTR | 8.00                              | 10.00 | 12.00 | 2.50                                            | 2.00                                | 157.0                               | 164.0 | 171.0 |
| HA74-05120LFTR | 9.60                              | 12.00 | 14.40 | 2.40                                            | 2.00                                | 175.0                               | 190.0 | 205.0 |
| HA74-05150LFTR | 12.00                             | 15.00 | 18.00 | 2.00                                            | 1.80                                | 204.0                               | 217.0 | 230.0 |
| HA74-05180LFTR | 14.40                             | 18.00 | 21.6  | 1.80                                            | 1.60                                | 265.0                               | 275.0 | 285.0 |
| HA74-05220LFTR | 17.60                             | 22.00 | 26.40 | 1.60                                            | 1.40                                | 295.0                               | 305.0 | 315.0 |
| HA74-05270LFTR | 21.60                             | 27.00 | 32.40 | 1.50                                            | 1.20                                | 385.0                               | 400.0 | 415.0 |
| HA74-05330LFTR | 26.40                             | 33.00 | 39.60 | 1.40                                            | 1.20                                | 410.0                               | 440.0 | 470.0 |

### Notes:

(1) Inductance is measured at 100kHz, 0.1Vrms

(2) The Heating Current is the DC current which causes the component temperature to increase by approximately 40°C. This current is determined by soldering the component on a typical application PCB, and then applying the current to the device for 30 minutes

(3) The saturation current (Isat) is the approximate current at which the inductance will be decreased by 20% typical from its initial (zero DC) value

(4) DCR is measured at room temperature 25°C

### General Note

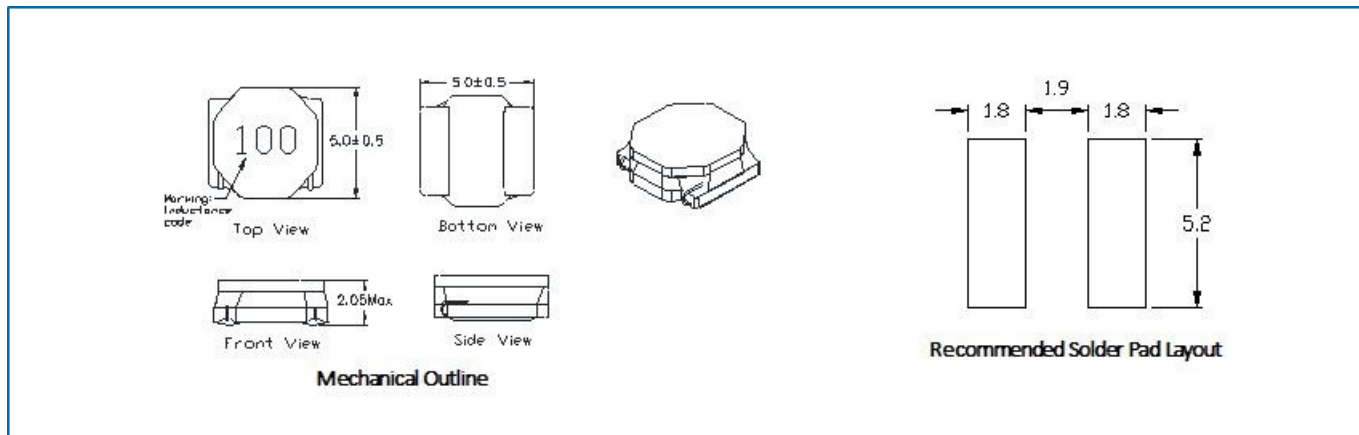
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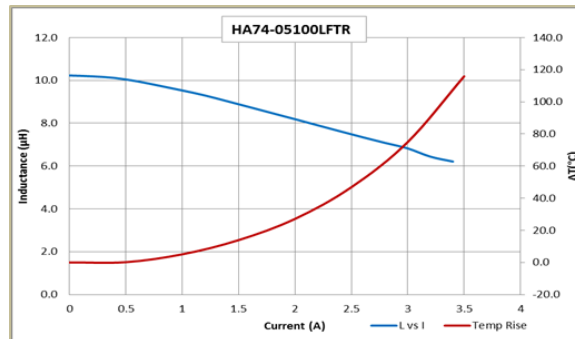
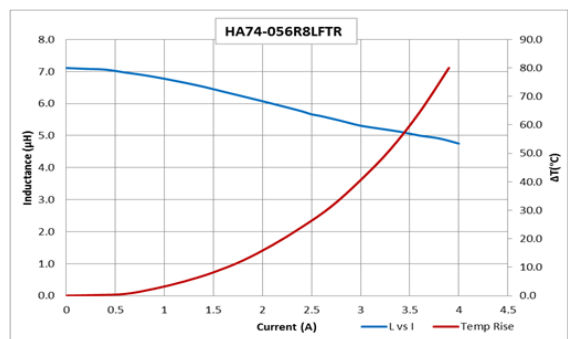
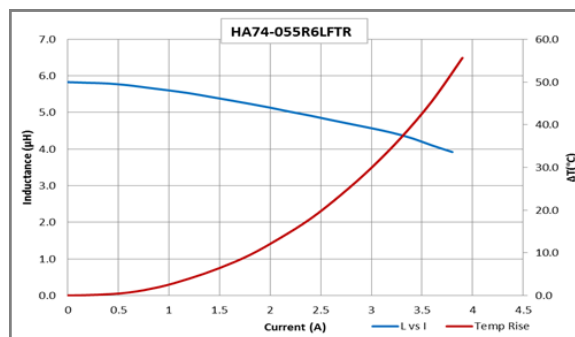
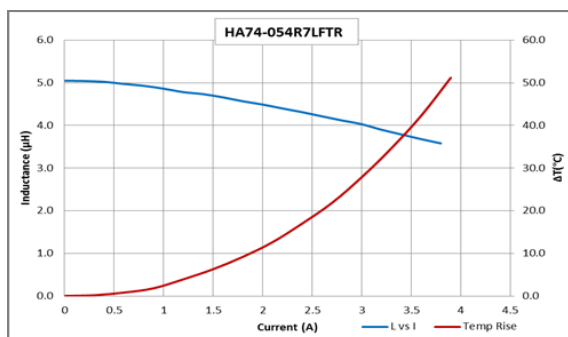
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### Outline Dimensions (mm)



### Electrical Characteristics @ 25°C



#### General Note

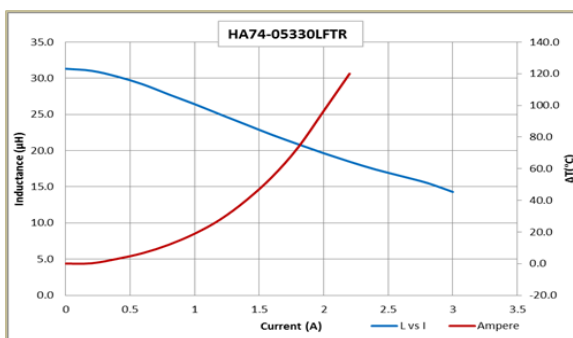
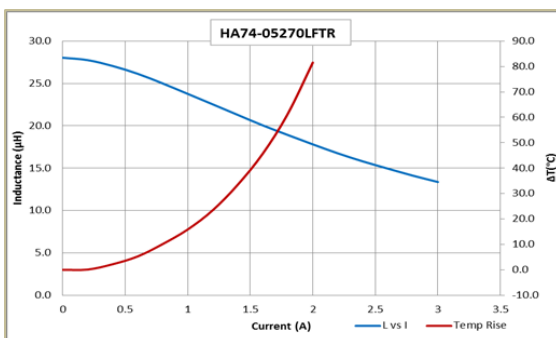
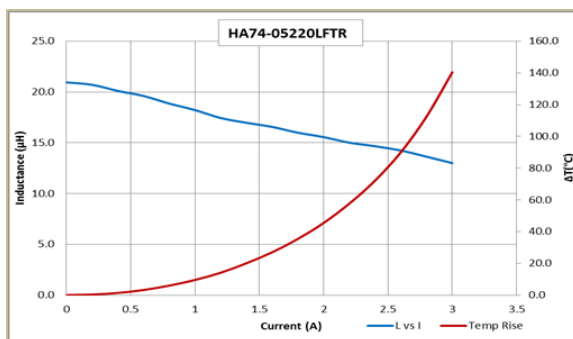
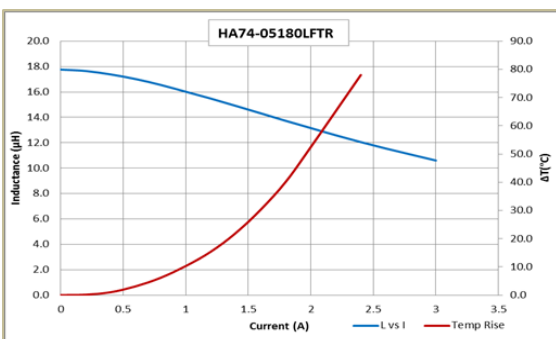
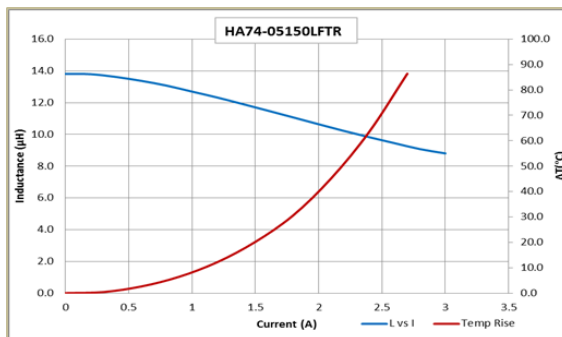
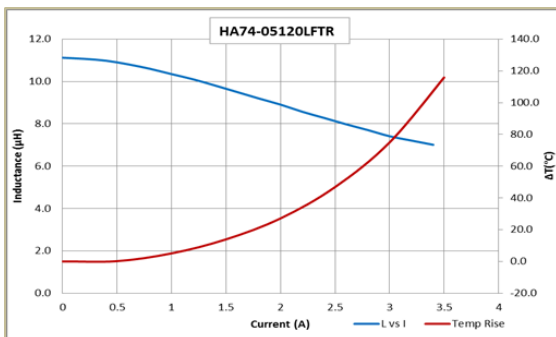
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#### General Note

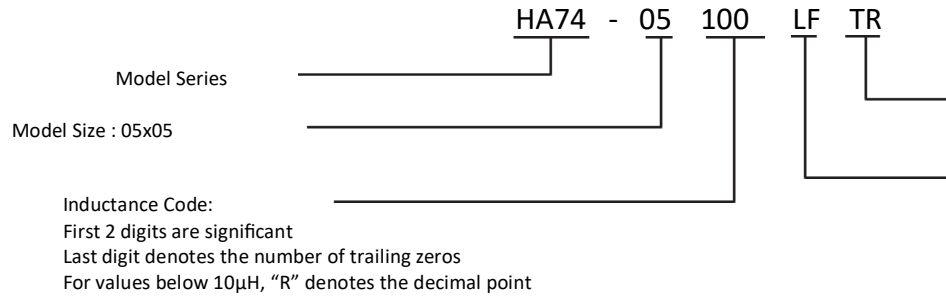
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### Packaging and Ordering Information



|                     |                      |
|---------------------|----------------------|
| One reel            | 2000 pcs             |
| One shipping carton | 6 reels or 12000 pcs |