

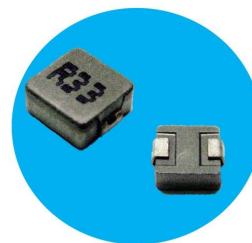
# Power Inductors

## Model HA72L-0420 series



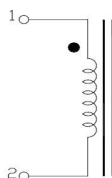
### Features:

- Operating Temperature Range  $-55^{\circ}\text{C}$  to  $+155^{\circ}\text{C}$
- Ambient Temperature, Maximum  $+115^{\circ}\text{C}$
- Temperature Rise,  $40^{\circ}\text{C}$
- RoHS Compliant
- AEC-Q200 Certified



All parts are Pb-free and comply with EU Directive 2011/65/EU (RoHS2)

### Schematic



### Specifications @ $25^{\circ}\text{C}$

| Part Number       | Inductance<br>( $\mu\text{H} \pm 20\%$<br>@0A) | DCR<br>(m $\Omega$ )<br>Typ | DCR<br>(m $\Omega$ )<br>Max | I <sub>rms</sub><br>(A) | I <sub>sat</sub><br>(A) | Part Number       | Inductance<br>( $\mu\text{H} \pm 20\%$<br>@0A) | DCR<br>(m $\Omega$ )<br>Typ. | DCR<br>(m $\Omega$ )<br>Max | I <sub>rms</sub><br>(A) | I <sub>sat</sub><br>(A) |
|-------------------|------------------------------------------------|-----------------------------|-----------------------------|-------------------------|-------------------------|-------------------|------------------------------------------------|------------------------------|-----------------------------|-------------------------|-------------------------|
| HA72L-0420R10LFTR | 0.10                                           | 3.5                         | 4.0                         | 12.0                    | 22.0                    | HA72L-04201R5LFTR | 1.50                                           | 38.0                         | 46.0                        | 4.0                     | 6.0                     |
| HA72L-0420R22LFTR | 0.22                                           | 6.0                         | 6.6                         | 9.0                     | 12.5                    | HA72L-0420R2LFTR  | 2.20                                           | 52.0                         | 58.0                        | 3.0                     | 5.0                     |
| HA72L-0420R33LFTR | 0.33                                           | 9.6                         | 13.0                        | 8.0                     | 12.0                    | HA72L-0420R3LFTR  | 3.30                                           | 74.0                         | 87.0                        | 2.5                     | 4.0                     |
| HA72L-0420R47LFTR | 0.47                                           | 12.5                        | 14.0                        | 7.0                     | 9.5                     | HA72L-0420R7LFTR  | 4.70                                           | 98.0                         | 110.0                       | 2.0                     | 3.5                     |
| HA72L-0420R56LFTR | 0.56                                           | 14.0                        | 16.0                        | 6.5                     | 10.0                    | HA72L-0420R6LFTR  | 5.60                                           | 105.0                        | 115.0                       | 1.8                     | 3.0                     |
| HA72L-0420R68LFTR | 0.68                                           | 16.0                        | 18.0                        | 6.0                     | 9.0                     | HA72L-0420R8LFTR  | 6.80                                           | 160.0                        | 175.0                       | 1.5                     | 2.5                     |
| HA72L-04201R0LFTR | 1.00                                           | 24.0                        | 27.0                        | 4.5                     | 7.0                     | HA72L-0420100LFTR | 10.0                                           | 256.0                        | 282.0                       | 1.2                     | 2.2                     |
| HA72L-04201R2LFTR | 1.20                                           | 24.0                        | 27.0                        | 4.5                     | 7.0                     |                   |                                                |                              |                             |                         |                         |

- Notes: (1) I<sub>sat</sub> is the saturation current at which inductance rolls off approximately 30% from its initial (zero DC)
- (2) I<sub>rms</sub> is the approximate current at which  $\Delta T = 40^{\circ}\text{C}$
- (3) Operating Temperature Range  $-55^{\circ}\text{C}$  to  $+155^{\circ}\text{C}$

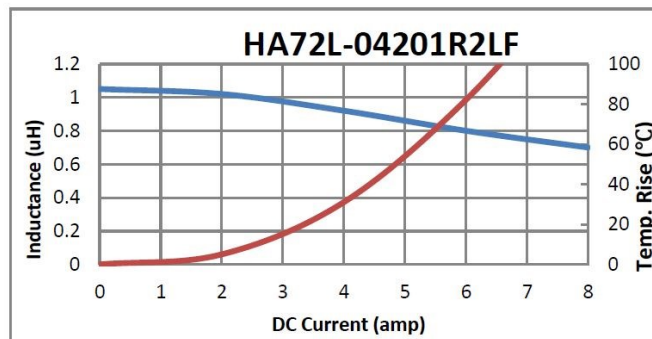
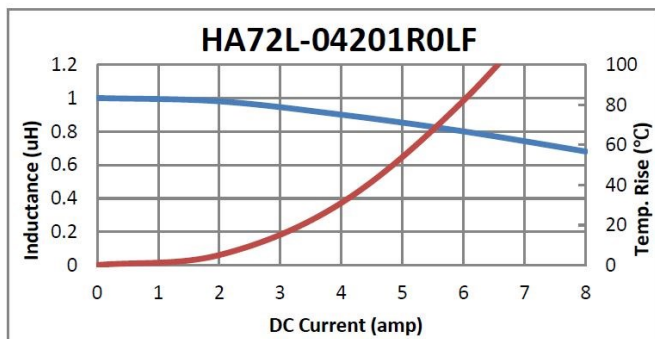
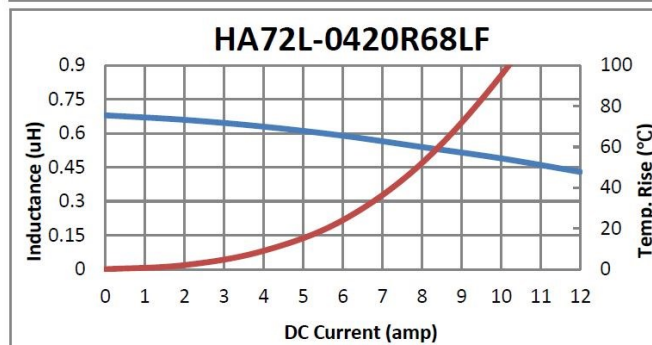
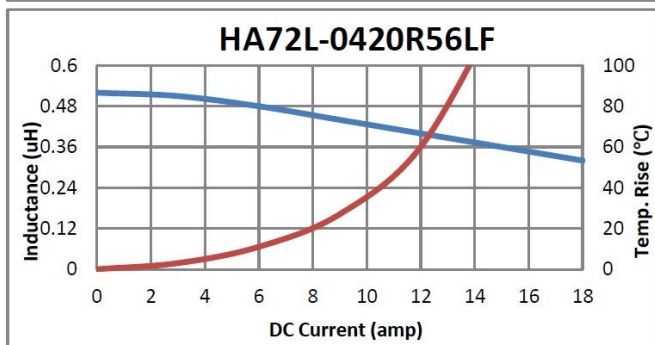
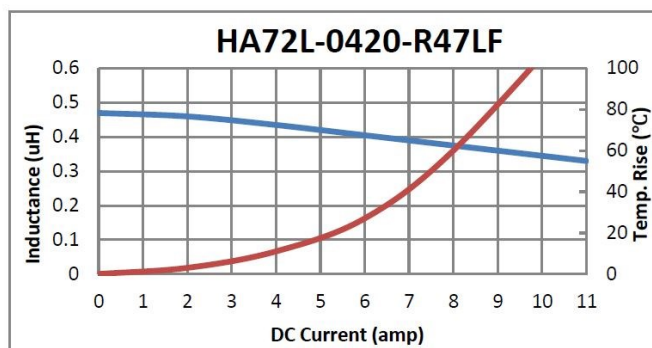
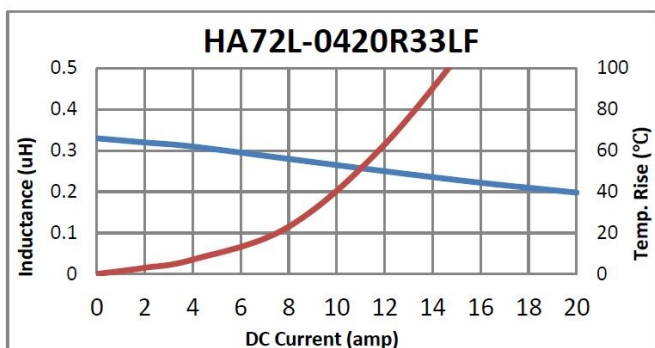
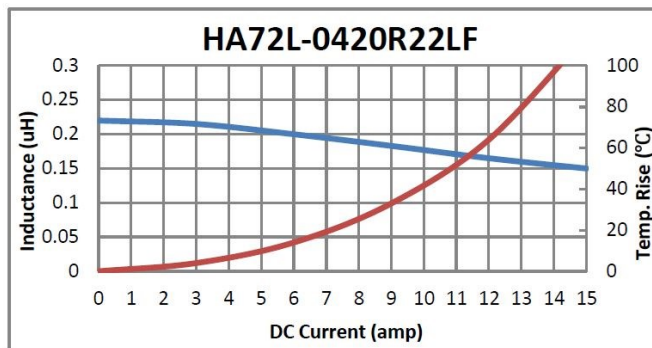
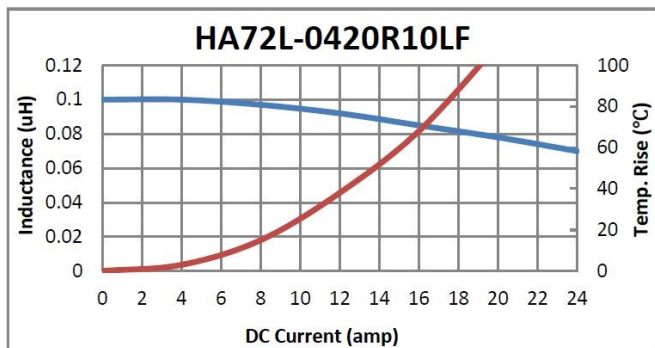
#### General Note

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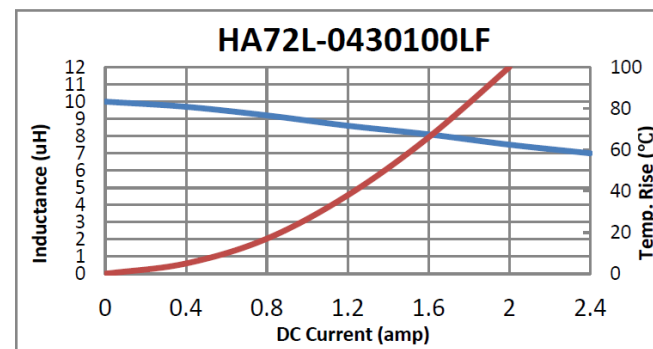
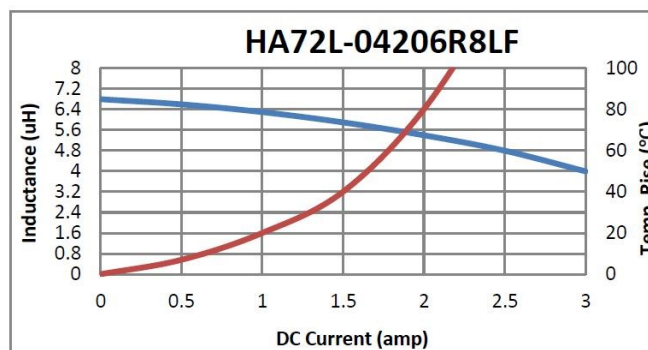
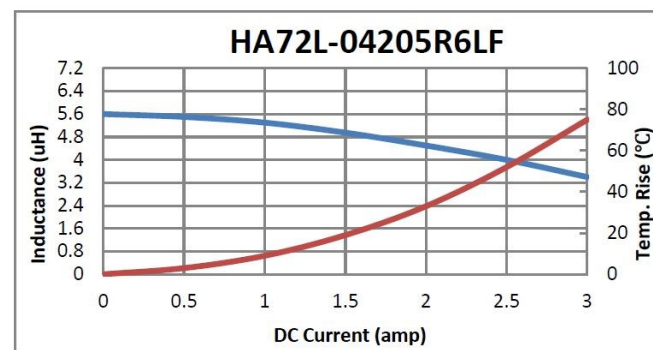
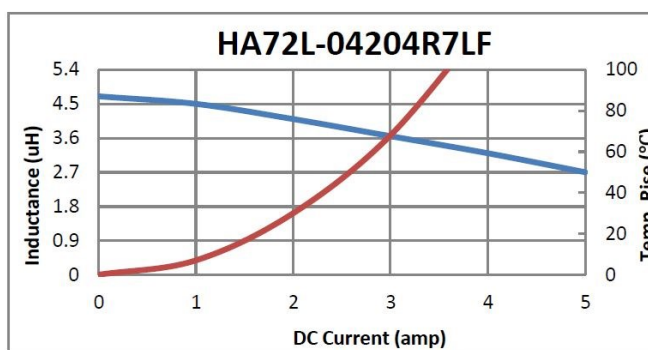
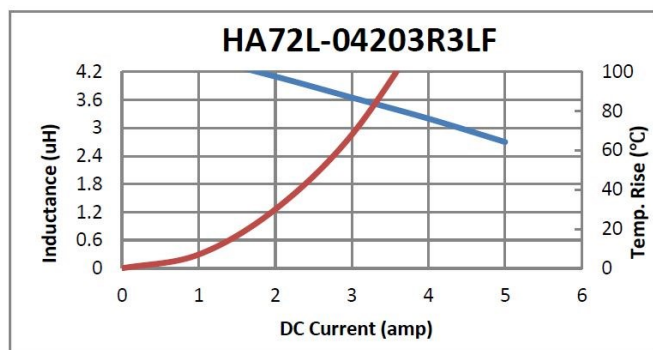
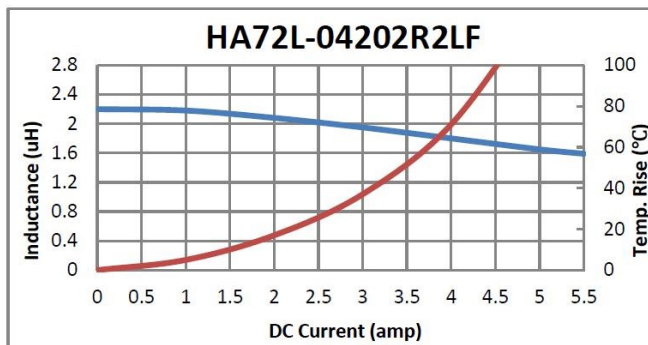
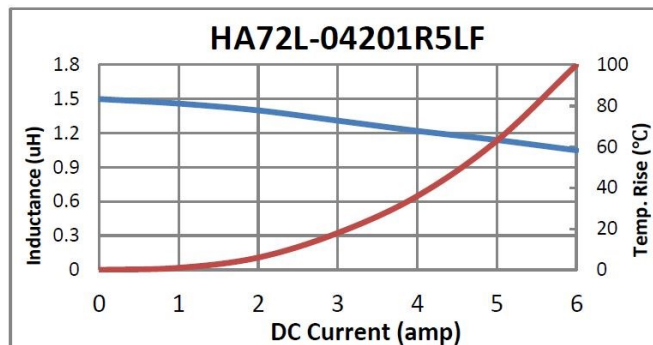
### Electrical Specifications @ 25°C



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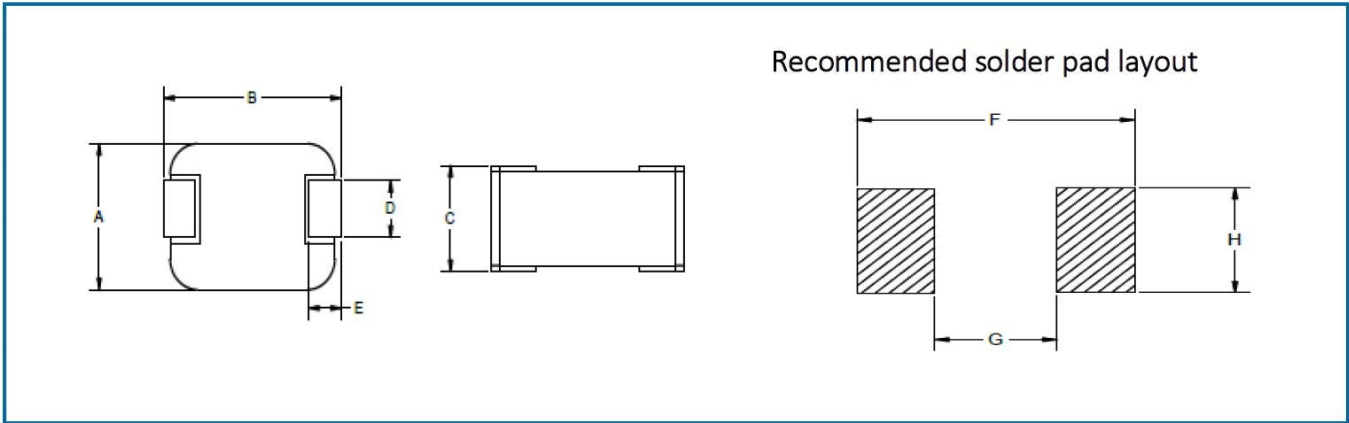
### Electrical Characteristics @ 25°C



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Outline dimensions (mm)

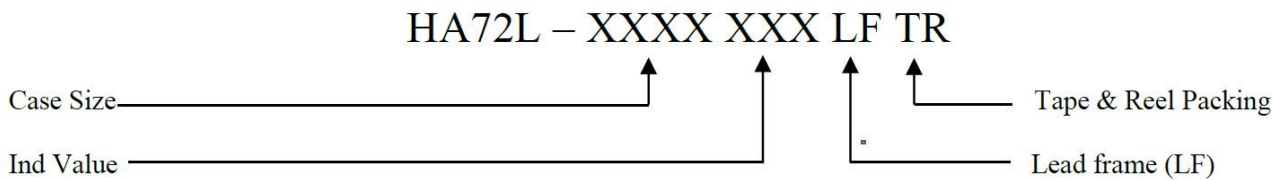


| CASE SIZE   | A(mm)       | B(mm)       | C(mm) | D(mm)     | E(mm)     | F(mm) | G(mm) | H(mm) |
|-------------|-------------|-------------|-------|-----------|-----------|-------|-------|-------|
| 0420 series | 4.05 ± 0.25 | 4.45 ± 0.25 | 2     | 1.5 ± 0.3 | 0.8 ± 0.3 | 4.95  | 2.15  | 2.30  |

Packaging

|           |                        |          |                |               |
|-----------|------------------------|----------|----------------|---------------|
| Standard: | Embossed Tape and Reel |          |                |               |
|           | Reel:                  | Diameter | All case size  | = 13" (330mm) |
|           |                        | Capacity | Case size 0420 | = 2,000 units |

Ordering information



## Model HA72L-0420 series

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