

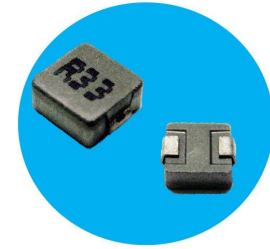
# Power Inductors

## Model HM72L-0420 series



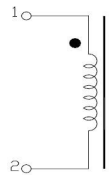
### Features:

- Operating Temperature Range  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$
- Ambient Temperature, Maximum  $+85^{\circ}\text{C}$
- Temperature Rise,  $40^{\circ}\text{C}$
- RoHS Compliant



 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>( $\text{m}\Omega$ )<br>Typ | DCR<br>( $\text{m}\Omega$ )<br>Max | I <sub>rms</sub><br>(A) | Isat<br>(A) | Part Number       | Inductance<br>( $\mu\text{H} \pm 20\%$<br>@0A) | DCR<br>( $\text{m}\Omega$ )<br>Typ. | DCR<br>( $\text{m}\Omega$ )<br>Max | I <sub>rms</sub><br>(A) | Isat<br>(A) |
|-------------------|------------------------------------------------|------------------------------------|------------------------------------|-------------------------|-------------|-------------------|------------------------------------------------|-------------------------------------|------------------------------------|-------------------------|-------------|
| HM72L-0420R10LFTR | 0.10                                           | 3.5                                | 4.0                                | 12.0                    | 22.0        | HM72L-04201R2LFTR | 1.20                                           | 24.0                                | 27.0                               | 4.5                     | 7.0         |
| HM72L-0420R15LFTR | 0.15                                           | 6.0                                | 6.6                                | 9.0                     | 13.0        | HM72L-04201R5LFTR | 1.50                                           | 38.0                                | 46.0                               | 4.0                     | 6.0         |
| HM72L-0420R22LFTR | 0.22                                           | 6.0                                | 6.6                                | 9.0                     | 12.5        | HM72L-04202R2LFTR | 2.20                                           | 52.0                                | 58.0                               | 3.0                     | 5.0         |
| HM72L-0420R33LFTR | 0.33                                           | 9.6                                | 13.0                               | 8.0                     | 12.0        | HM72L-04203R3LFTR | 3.30                                           | 74.0                                | 87.0                               | 2.5                     | 4.0         |
| HM72L-0420R47LFTR | 0.47                                           | 12.5                               | 14.0                               | 7.0                     | 9.5         | HM72L-04204R7LFTR | 4.70                                           | 98.0                                | 110.0                              | 2.0                     | 3.5         |
| HM72L-0420R56LFTR | 0.56                                           | 14.0                               | 16.0                               | 6.5                     | 10.0        | HM72L-04205R6LFTR | 5.60                                           | 105.0                               | 115.0                              | 1.8                     | 3.0         |
| HM72L-0420R60LFTR | 0.60                                           | 14.0                               | 16.0                               | 6.5                     | 10.0        | HM72L-04206R8LFTR | 6.80                                           | 160.0                               | 175.0                              | 1.5                     | 2.5         |
| HM72L-0420R68LFTR | 0.68                                           | 16.0                               | 18.0                               | 6.0                     | 9.0         | HM72L-0420100LFTR | 10.0                                           | 256.0                               | 282.0                              | 1.2                     | 2.2         |
| HM72L-04201R0LFTR | 1.00                                           | 24.0                               | 27.0                               | 4.5                     | 7.0         |                   |                                                |                                     |                                    |                         |             |

- Notes:
- (1) Isat 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  $+125^{\circ}\text{C}$

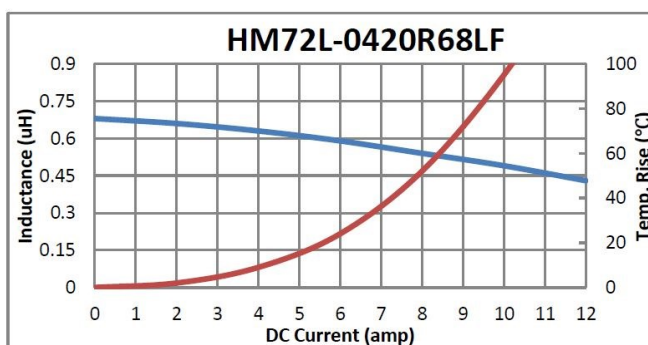
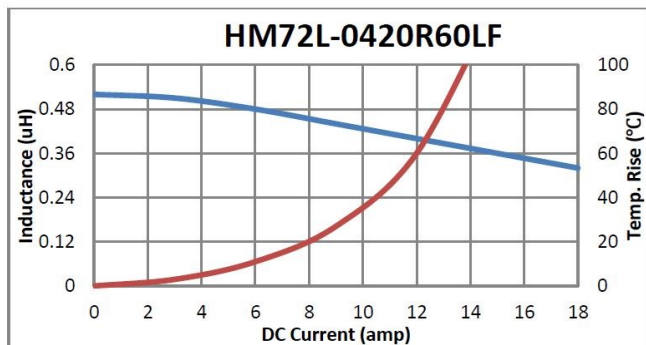
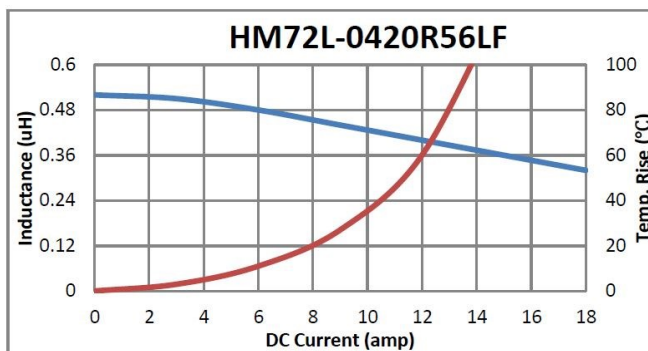
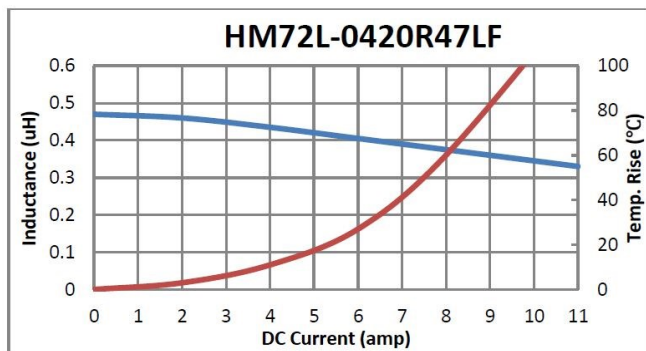
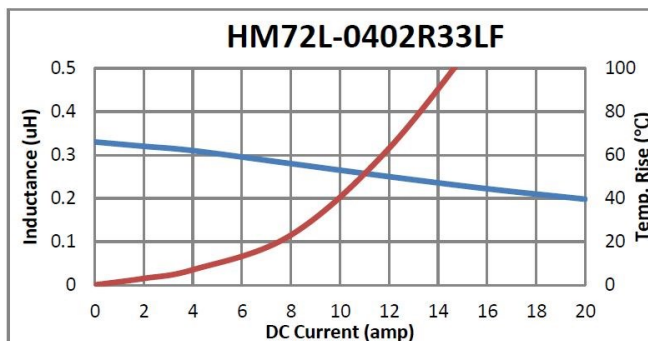
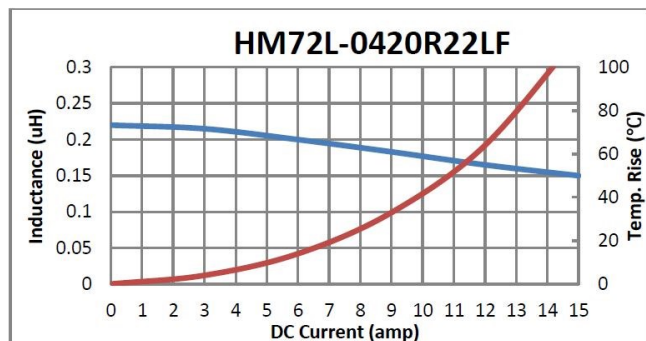
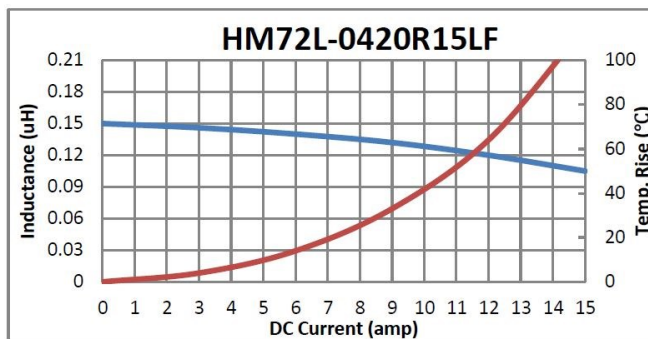
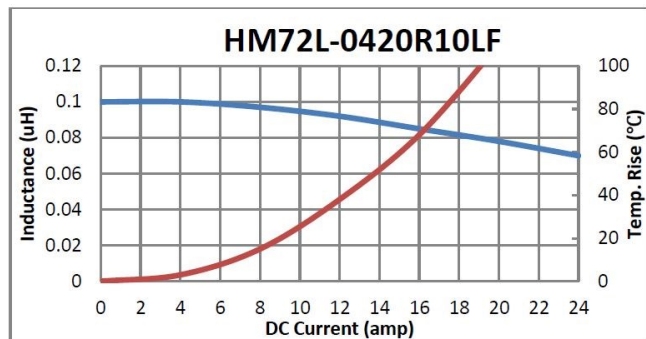
#### General Note

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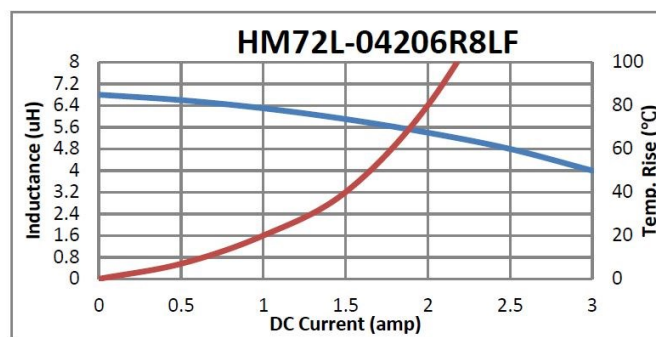
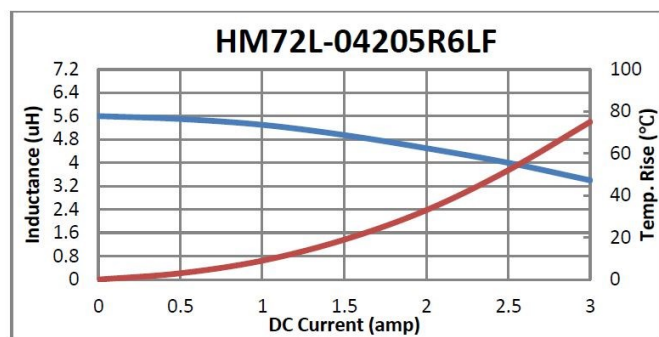
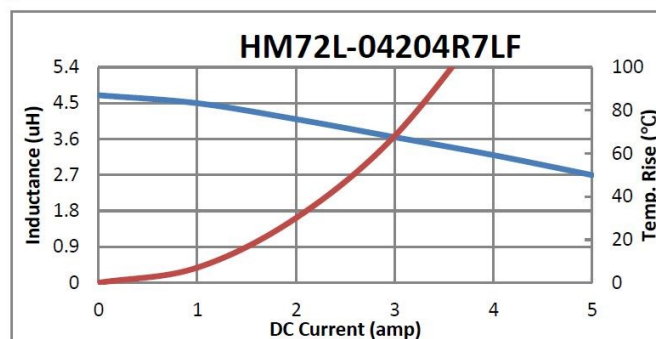
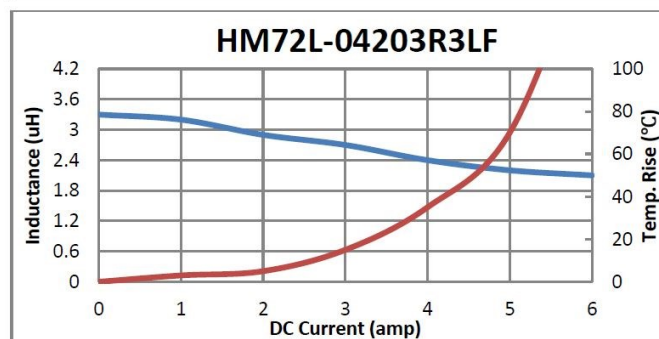
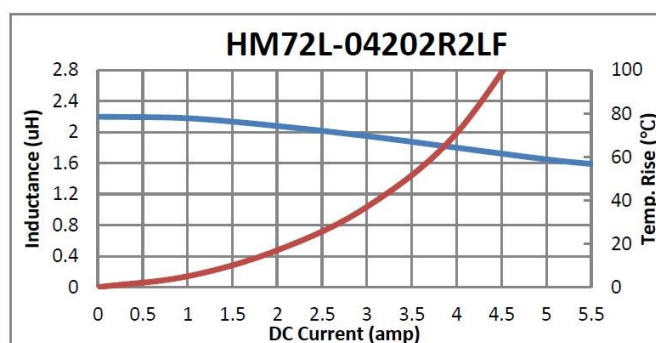
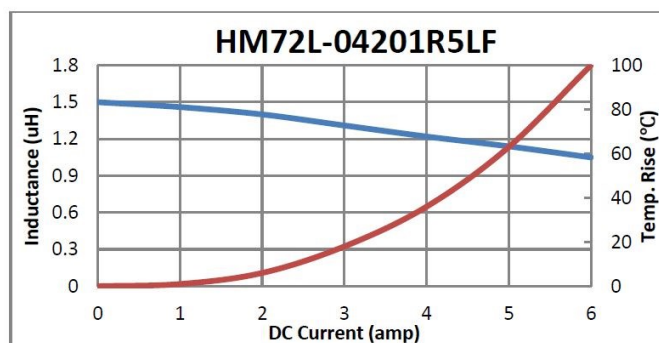
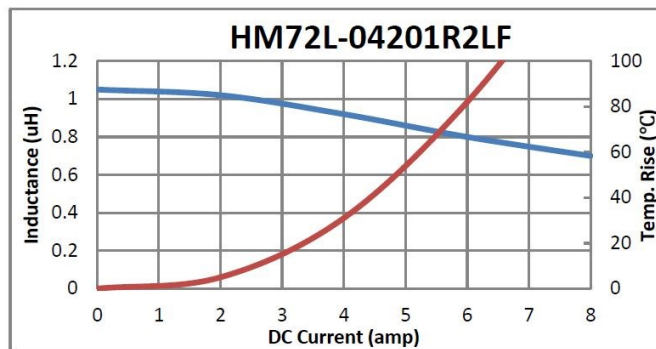
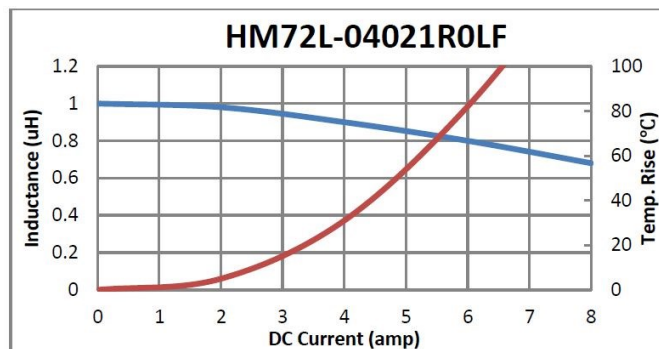
### Electrical Specifications @ 25



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### Electrical Specifications @ 25°C

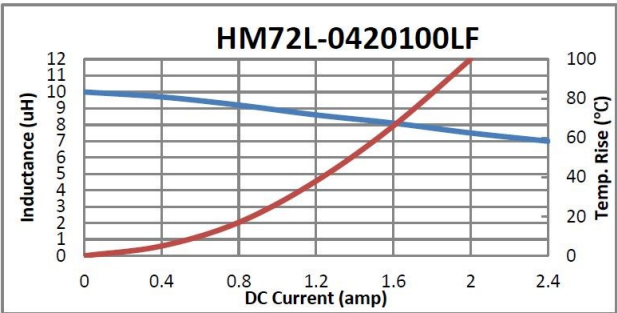


#### General Note

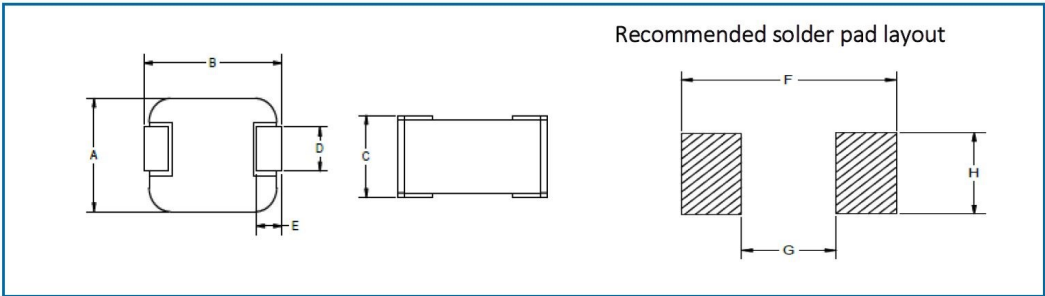
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# Power Inductors

## Model HM72L-0420 series



### Outline dimensions (mm)

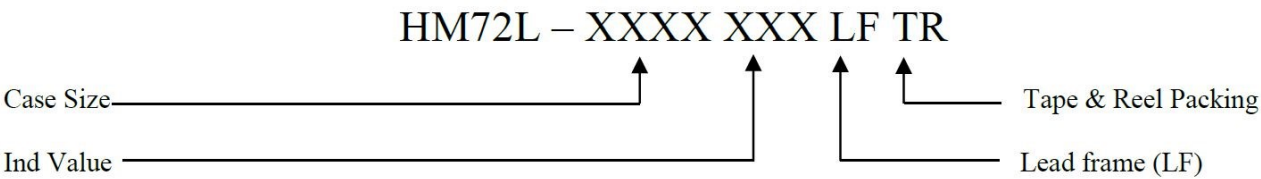


| CASE SIZE   | A(mm)       | B(mm)       | C(mm) | D(mm)     | E(mm)     | F(mm) | G(mm) | H(mm) |
|-------------|-------------|-------------|-------|-----------|-----------|-------|-------|-------|
| 0420 series | 4.05 ± 0.25 | 4.45 ± 0.25 | 2     | 1.5 ± 0.3 | 0.8 ± 0.3 | 4.95  | 2.15  | 2.3   |

### Packaging

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

### Ordering information



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- Подбор аналогов;
- Консультации по применению компонента;
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- Техническая поддержка проекта;
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#### Как с нами связаться

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