

Power Inductors

Model HM72L-0412 series



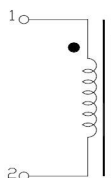
Features:

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



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

Schematic



Specifications @ 25°C

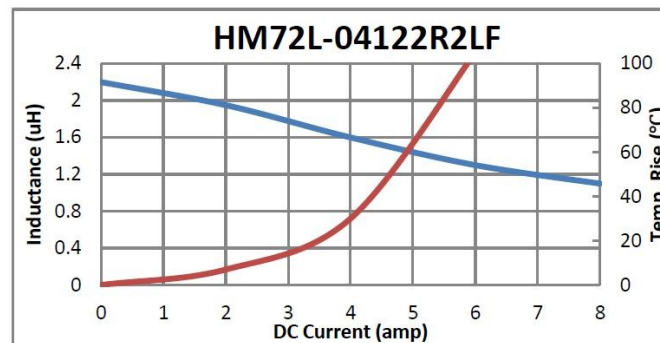
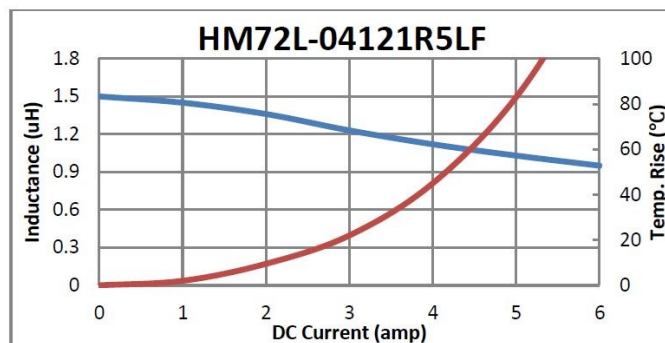
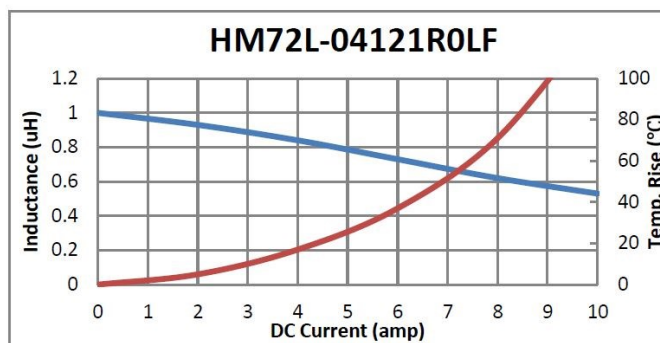
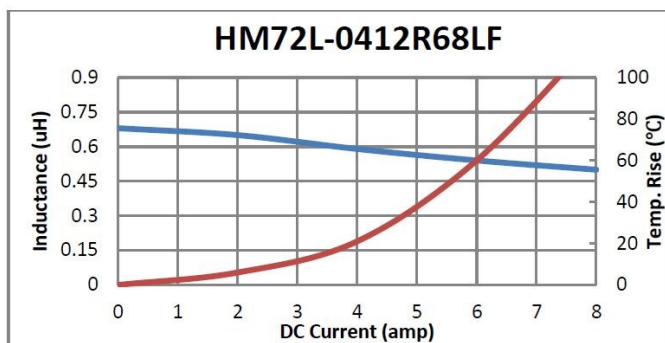
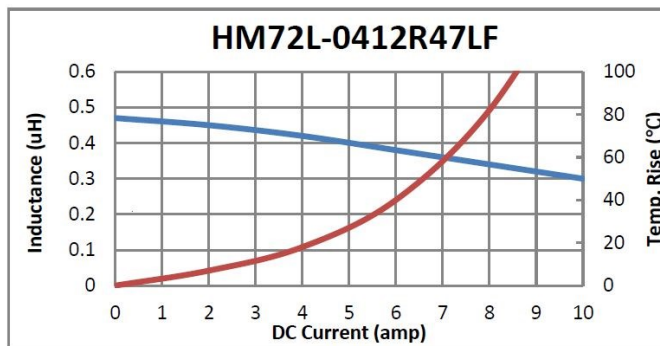
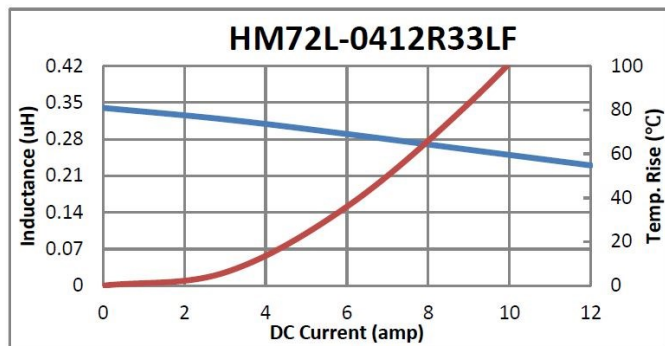
| Part Number | Inductance ($\mu\text{H} \pm 20\%$ @0A) | DCR (m Ω) Typ | DCR (m Ω) Max | I _{rms} (A) | I _{sat} (A) | Part Number | Inductance ($\mu\text{H} \pm 20\%$ @0A) | DCR (m Ω) Typ. | DCR (m Ω) Max | I _{rms} (A) | I _{sat} (A) |
|-------------------|--|-----------------------------|-----------------------------|-------------------------|-------------------------|-------------------|--|------------------------------|-----------------------------|-------------------------|-------------------------|
| HM72L-0412R33LFTR | 0.33 | 17.0 | 19.0 | 6.5 | 8.4 | HM72L-04121R0LFTR | 1.00 | 43.0 | 47.0 | 4.5 | 5.5 |
| HM72L-0412R47LFTR | 0.47 | 19.0 | 22.0 | 6.0 | 6.8 | HM72L-04121R5LFTR | 1.50 | 68.0 | 75.0 | 3.25 | 4.0 |
| HM72L-0412R68LFTR | 0.68 | 32.0 | 36.0 | 4.7 | 6.0 | HM72L-04122R2LFTR | 2.20 | 79.4 | 83.5 | 2.75 | 3.5 |

- Notes: (1) I_{sat} is the saturation current at which inductance rolls off approximately 30% from its initial (zero DC)
- (2) I_{rms} is the approximate current at which $\Delta T = 40^{\circ}\text{C}$
- (3) Operating Temperature Range -55°C to $+125^{\circ}\text{C}$

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

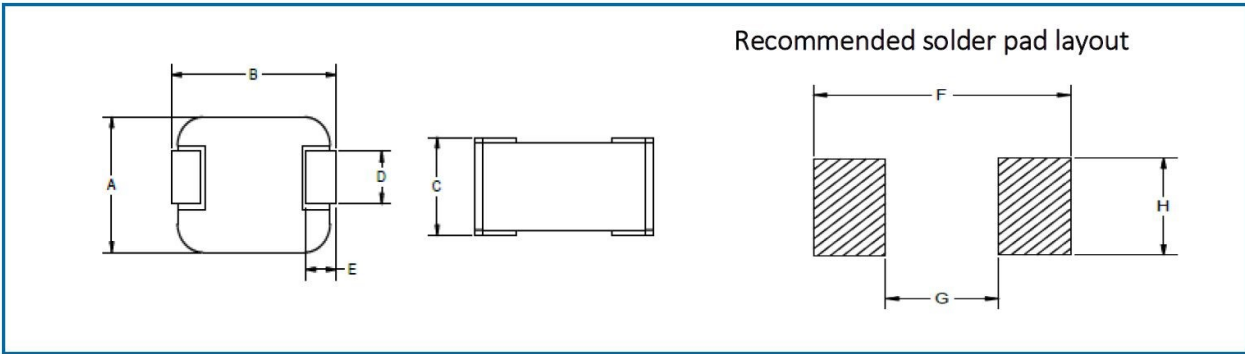
Electrical Specifications @ 25



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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) |
|-------------|------------|------------|-------|-----------|-----------|-------|-------|-------|
| 0412 series | 4.2 ± 0.25 | 4.4 ± 0.35 | 1.2 | 1.5 ± 0.3 | 0.8 ± 0.3 | 4.95 | 2.15 | 2.3 |

Packaging

| | | | |
|-----------|------------------------|-----------|------------------------------|
| Standard: | Embossed Tape and Reel | | |
| | Reel: | Diameter: | All case size = 13" (330mm)) |
| | | Capacity: | Case size 0412 = 3,000 units |

Ordering information

