

Power Inductors

Model HM72L-1040 series



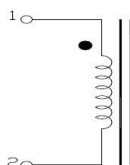
Features:

- 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

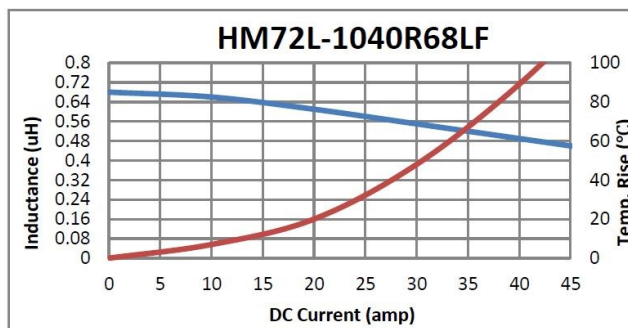
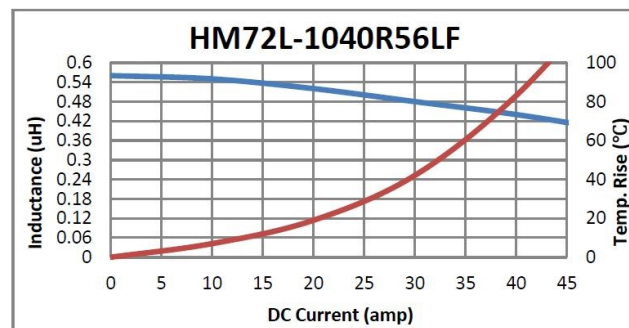
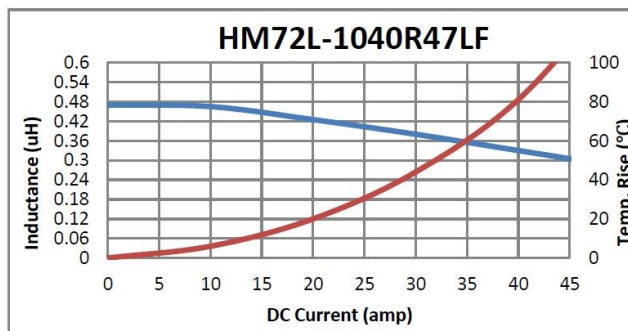
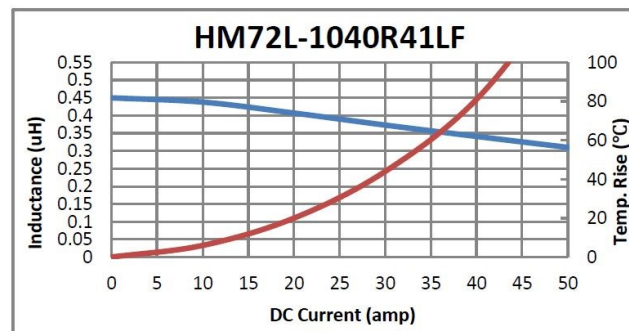
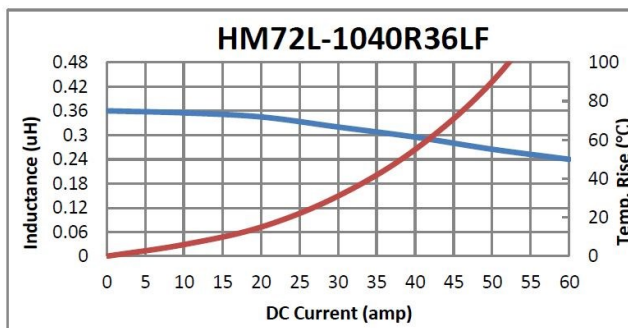
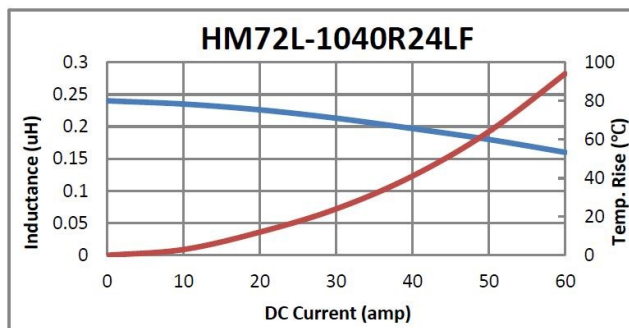
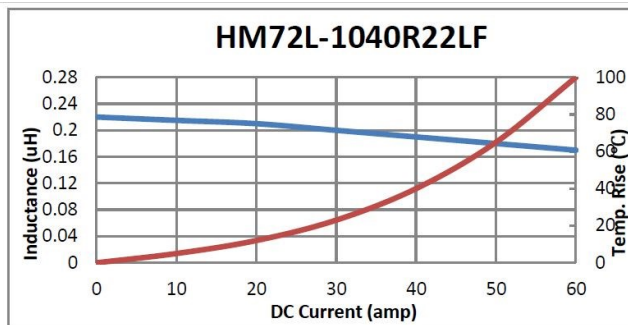
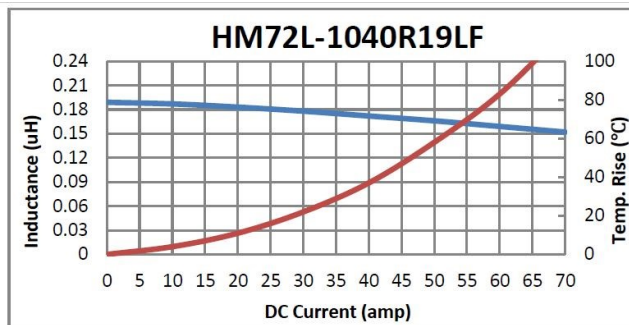
| Part Number | Inductance ($\mu\text{H} \pm 20\%$ @0A) | DCR (m Ω) Typ | DCR (m Ω) Max | Irms (A) | Isat (A) | Part Number | Inductance ($\mu\text{H} \pm 20\%$ @0A) | DCR (m Ω) Typ. | DCR (m Ω) Max | Irms (A) | Isat (A) |
|-------------------|--|-----------------------------|-----------------------------|-------------|-------------|-------------------|--|------------------------------|-----------------------------|-------------|-------------|
| HM72L-1040R19LFTR | 0.19 | 0.50 | 0.70 | 44.0 | 44.0 | HM72L-1040R78LFTR | 0.78 | 1.60 | 1.80 | 25.0 | 25.0 |
| HM72L-1040R22LFTR | 0.22 | 0.60 | 0.80 | 38.0 | 42.0 | HM72L-1040R82LFTR | 0.82 | 2.20 | 2.50 | 21.0 | 21.0 |
| HM72L-1040R24LFTR | 0.24 | 0.70 | 0.80 | 38.0 | 38.0 | HM72L-10401R0LFTR | 1.00 | 2.20 | 2.50 | 21.0 | 21.0 |
| HM72L-1040R36LFTR | 0.36 | 0.85 | 0.95 | 35.0 | 35.0 | HM72L-10401R8LFTR | 1.80 | 4.5 | 5.0 | 15.0 | 15.0 |
| M72L-1040R41LFTR | 0.41 | 1.04 | 1.15 | 33.0 | 32.0 | HM72L-10402R0LFTR | 2.00 | 5.2 | 5.8 | 14.0 | 14.0 |
| HM72L-1040R47LFTR | 0.47 | 1.20 | 1.40 | 32.0 | 32.0 | HM72L-10402R2LFTR | 2.2 | 5.50 | 6.30 | 14.0 | 16.0 |
| HM72L-1040R56LFTR | 0.56 | 1.30 | 1.50 | 30.0 | 30.0 | HM72L-10402R5LFTR | 2.5 | 8.20 | 9.00 | 12.0 | 12.0 |
| HM72L-1040R68LFTR | 0.68 | 1.60 | 1.80 | 25.0 | 30.0 | HM72L-10403R3LFTR | 3.30 | 8.2 | 9.0 | 12.0 | 11.0 |

- Notes: (1) Isat is the saturation current at which inductance rolls off approximately 30% from its initial (zero DC)
- (2) Irms 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.

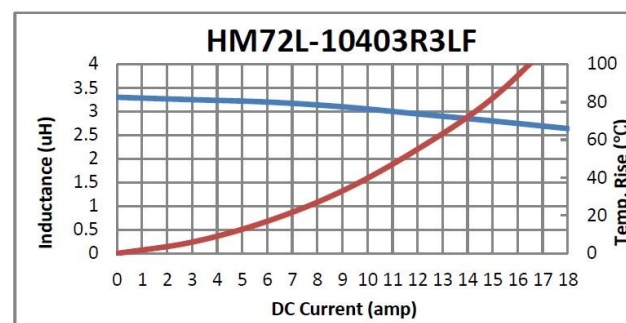
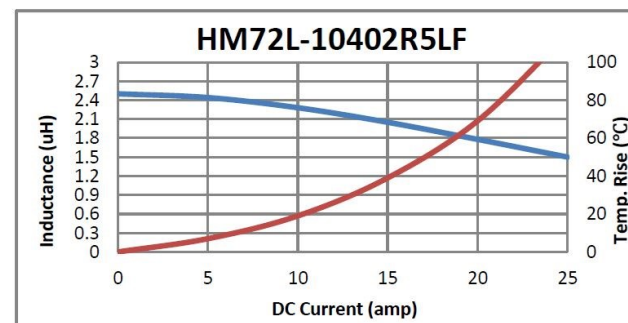
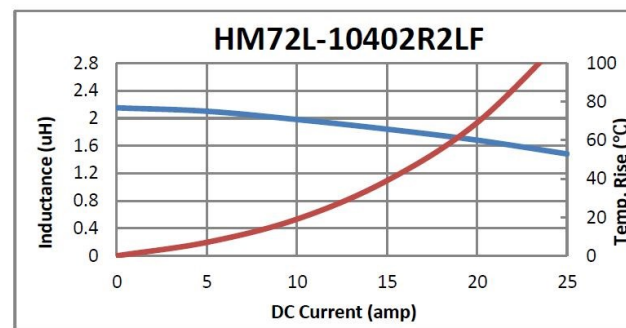
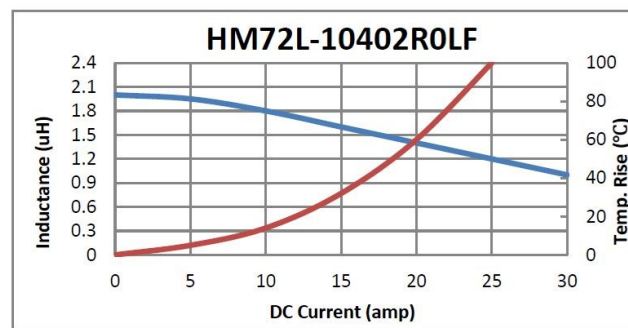
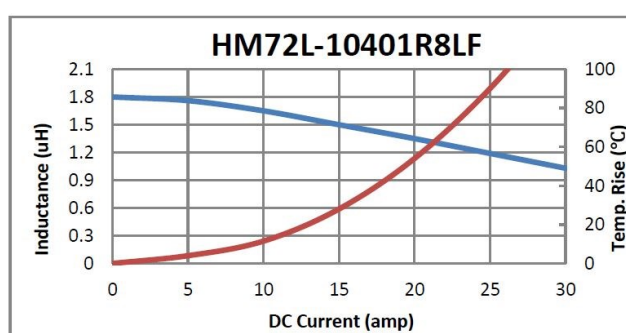
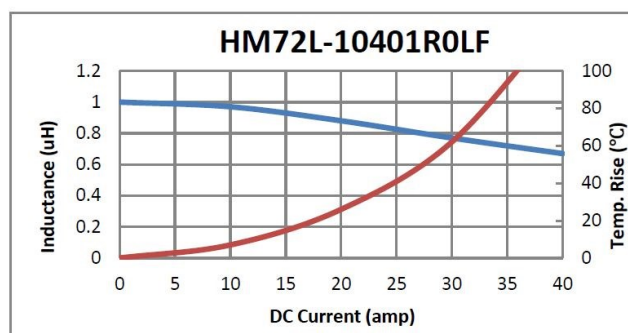
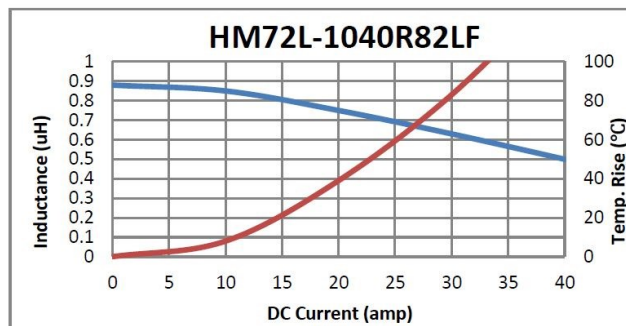
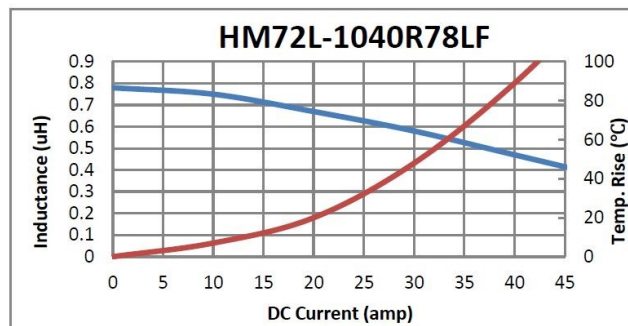
Electrical Specifications @ 25



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.

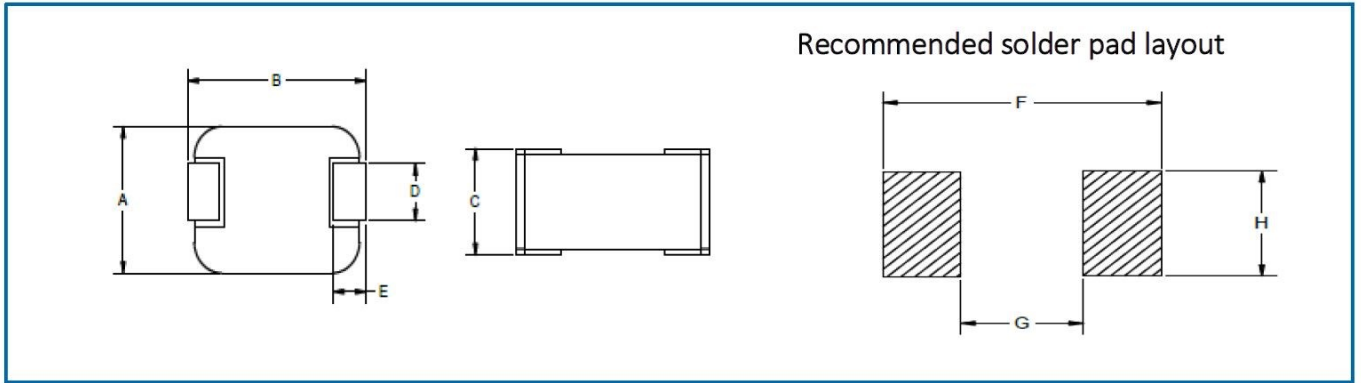
Electrical Characteristics @ 25°C



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Outline dimensions (mm)

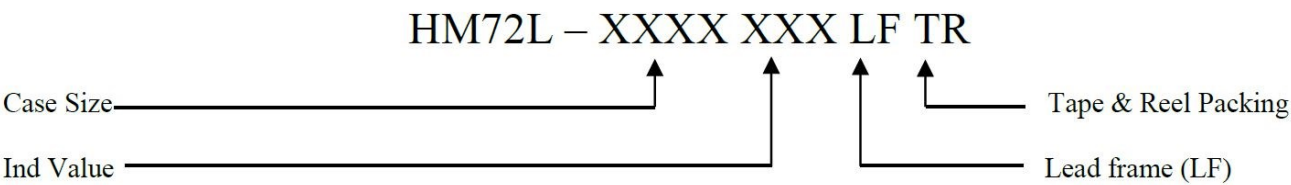


| CASE SIZE | A(mm) | B(mm) | C(mm) | D(mm) | E(mm) | F(mm) | G(mm) | H(mm) |
|-------------|------------|-------|-------|-----------|-----------|-------|-------|-------|
| 1040 series | 10.0 ± 0.3 | 11.5 | 4 | 2.8 ± 0.5 | 2.0 ± 0.5 | 13 | 6 | 4 |

Packaging

| | | | |
|-----------|------------------------|----------------|----------------|
| Standard: | Embossed Tape and Reel | | |
| | Diameter: | All case size | = 13" (330mm)) |
| | Reel: | Case size 1040 | = 800 units |

Ordering information



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TT Electronics:

| | | | | |
|--|--|--|--|--|
| <u>HM72L-10403R3LFTR</u> | <u>HM72L-1040R47LFTR</u> | <u>HM72L-1040R24LFTR</u> | <u>HM72L-1040R19LFTR</u> | <u>HM72L-10401R8LFTR</u> |
| <u>HM72L-1040R82LFTR</u> | <u>HM72L-1040R22LFTR</u> | <u>HM72L-1040R78LFTR</u> | <u>HM72L-1040R56LFTR</u> | <u>HM72L-1040R68LFTR</u> |
| <u>HM72L-10402R2LFTR</u> | <u>HM72L-10402R0LFTR</u> | <u>HM72L-1040R36LFTR</u> | <u>HM72L-1040R41LFTR</u> | <u>HM72L-10401R0LFTR</u> |
| <u>HM72L-10402R5LFTR</u> | | | | |