

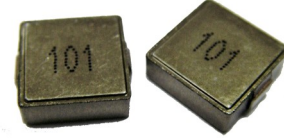
Power Inductors

Model HA72L-1040 series

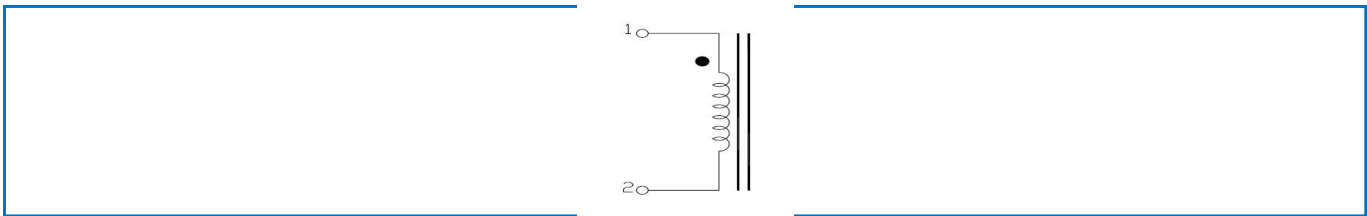


Features:

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



Schematic



Specifications @ 25°C

| Part Number | Inductance ($\mu\text{H} \pm 20\%$ @0A) | DCR ($\text{m}\Omega$) Typ | DCR ($\text{m}\Omega$) Max | I _{rms} (A) | Isat (A) | Part Number | Inductance ($\mu\text{H} \pm 20\%$ @0A) | DCR ($\text{m}\Omega$) Typ. | DCR ($\text{m}\Omega$) Max | I _{rms} (A) | Isat (A) |
|-------------------|--|------------------------------|------------------------------|----------------------|----------|-------------------|--|-------------------------------|------------------------------|----------------------|----------|
| HA72L-1040R19LFTR | 0.19 | 0.70 | 0.80 | 40.0 | 46.0 | HA72L-10405R6LFTR | 5.60 | 15.5 | 16.5 | 9.2 | 7.4 |
| HA72L-1040R24LFTR | 0.24 | 0.85 | 0.95 | 33.0 | 44.0 | HA72L-10406R8LFTR | 6.80 | 17.5 | 19.3 | 9.0 | 7.5 |
| HA72L-1040R36LFTR | 0.36 | 1.05 | 1.15 | 32.0 | 30.0 | HA72L-10408R2LFTR | 8.20 | 22.0 | 24.0 | 8.3 | 7.3 |
| HA72L-1040R47LFTR | 0.47 | 1.53 | 1.68 | 30.0 | 30.0 | HA72L-1040100LFTR | 10.0 | 27.80 | 30.50 | 7.5 | 7.1 |
| HA72L-1040R56LFTR | 0.56 | 1.6 | 1.8 | 32.0 | 22.0 | HA72L-1040150LFTR | 15.0 | 40.90 | 45.00 | 6.25 | 6.0 |
| HA72L-1040R78LFTR | 0.78 | 1.8 | 1.9 | 27.0 | 22.0 | HA72L-1040220LFTR | 22.0 | 60.40 | 66.00 | 5.0 | 4.5 |
| HA72L-10401R0LFTR | 1.00 | 2.3 | 2.5 | 25.0 | 20.0 | HA72L-1040330LFTR | 33.0 | 87.50 | 94.50 | 4.4 | 4.0 |
| HA72L-10401R2LFTR | 1.20 | 2.3 | 2.5 | 25.0 | 20.0 | HA72L-1040470LFTR | 47.0 | 132.0 | 145.0 | 4.0 | 3.0 |
| HA72L-10401R8LFTR | 1.80 | 4.5 | 5.0 | 17.0 | 16.0 | HA72L-1040560LFTR | 56.0 | 150.0 | 170.0 | 3.8 | 2.8 |
| HA72L-10402R0LFTR | 2.00 | 5.2 | 5.8 | 16.0 | 14.0 | HA72L-1040680LFTR | 68.0 | 175.0 | 200.0 | 3.5 | 2.6 |
| HA72L-10403R3LFTR | 3.30 | 8.2 | 9.0 | 12.0 | 14.0 | HA72L-1040820LFTR | 82.0 | 210.0 | 240.0 | 3.2 | 2.4 |
| HA72L-10404R7LFTR | 4.70 | 12.9 | 14.2 | 9.5 | 7.6 | HA72L-1040101LFTR | 100.0 | 249.0 | 270.0 | 3.0 | 2.25 |

- Notes:
- (1) Isat 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 $+155^{\circ}\text{C}$
 - (4) Test condition for all case sizes is 100kHz @ 1V

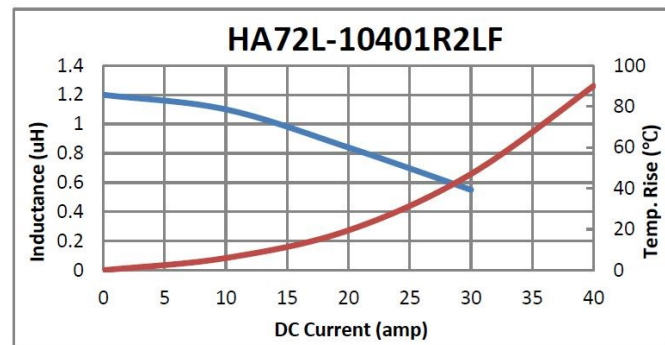
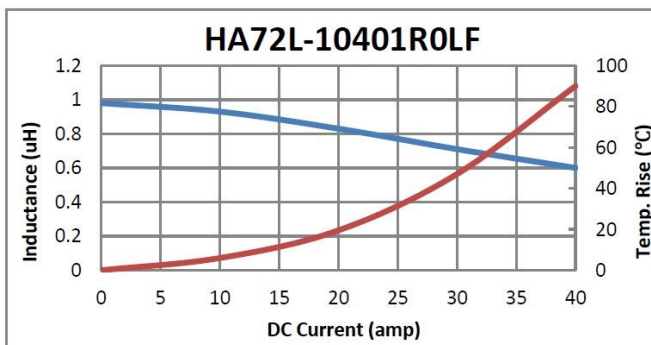
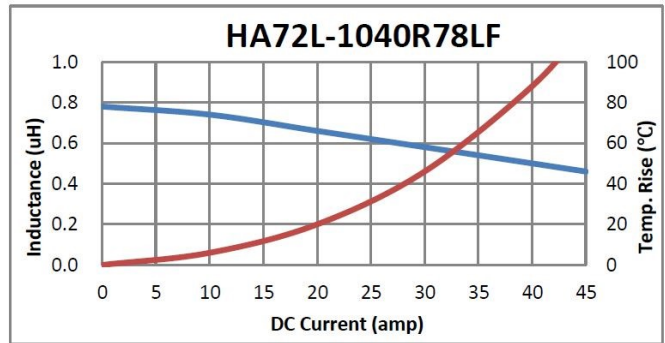
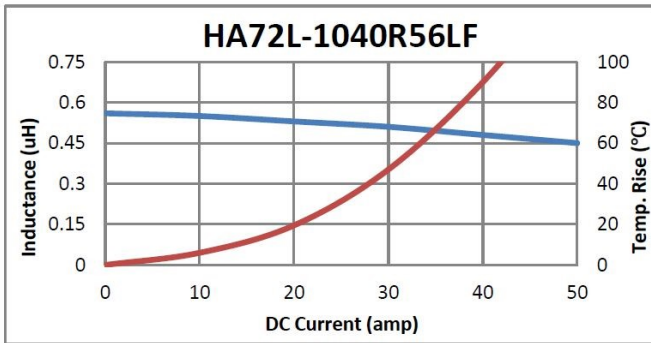
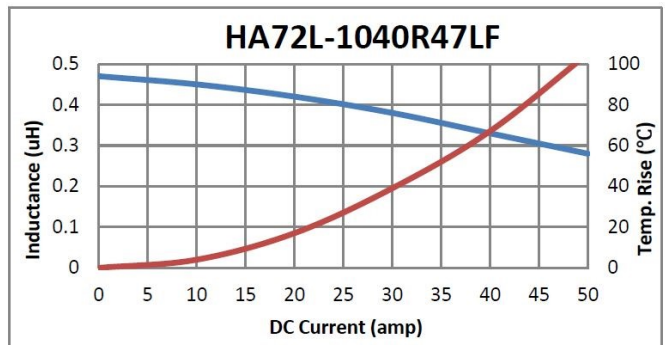
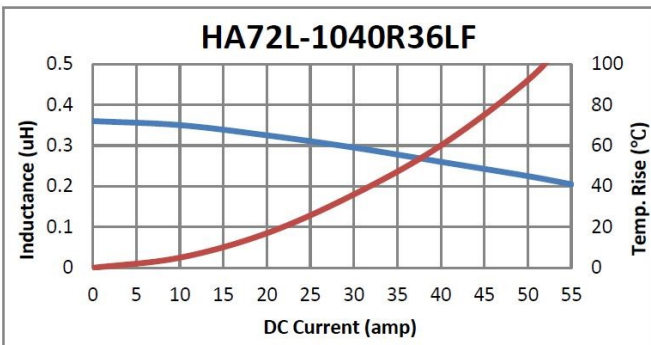
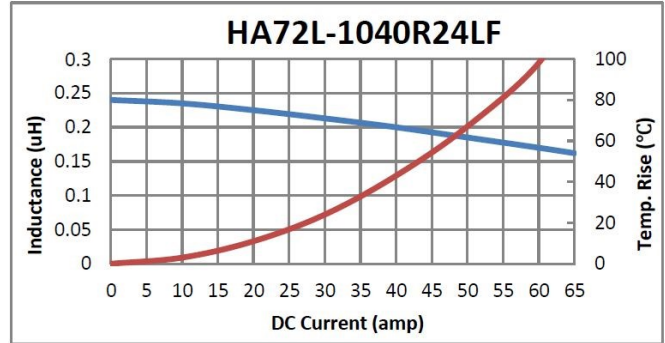
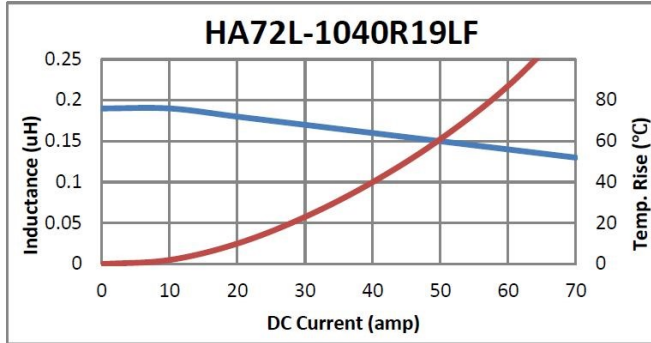
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Electrical Specifications

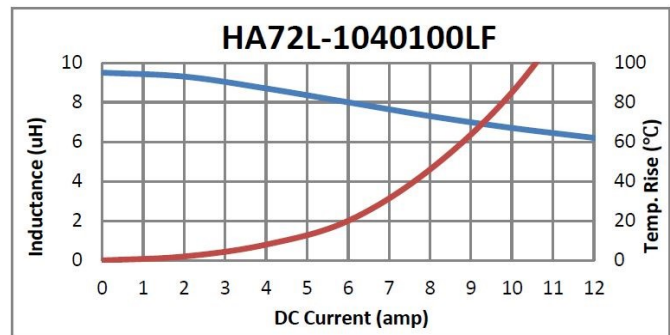
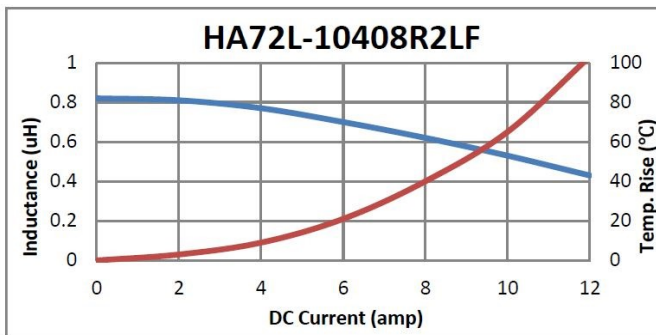
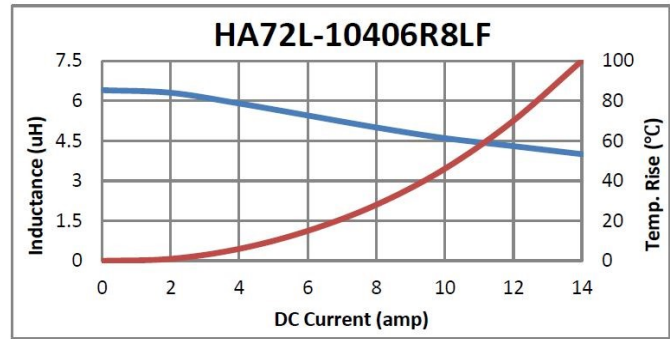
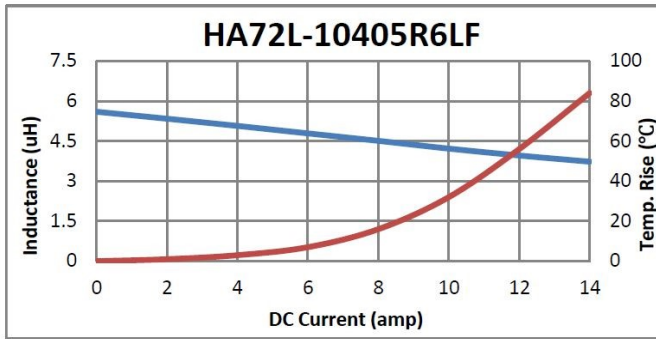
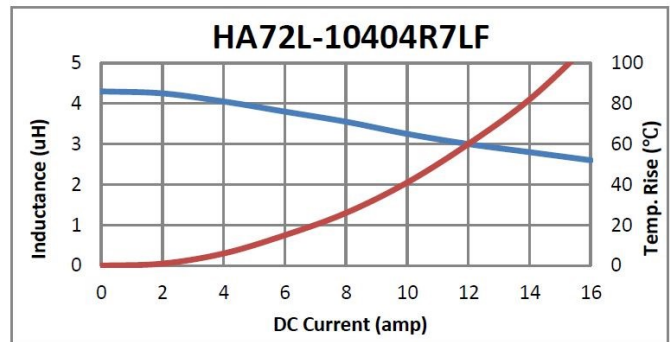
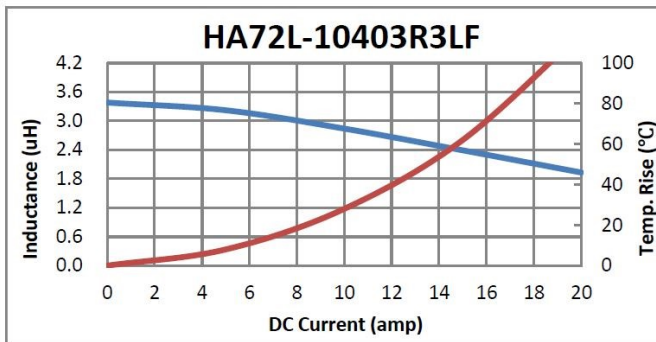
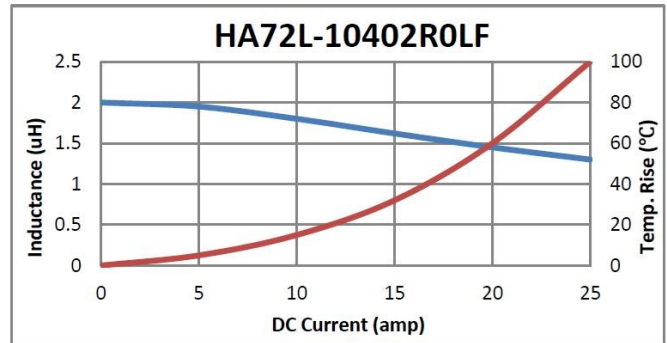
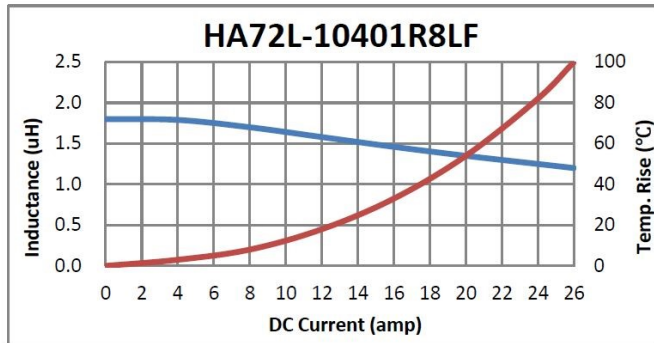


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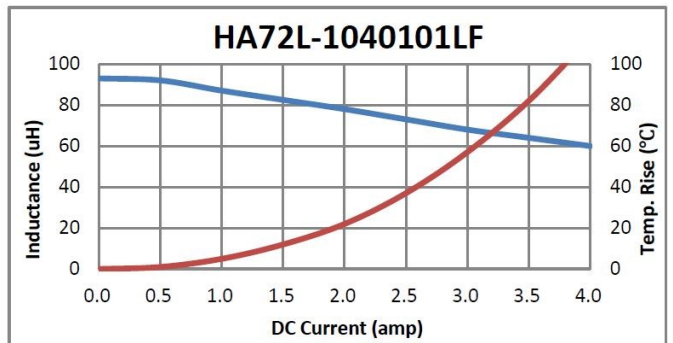
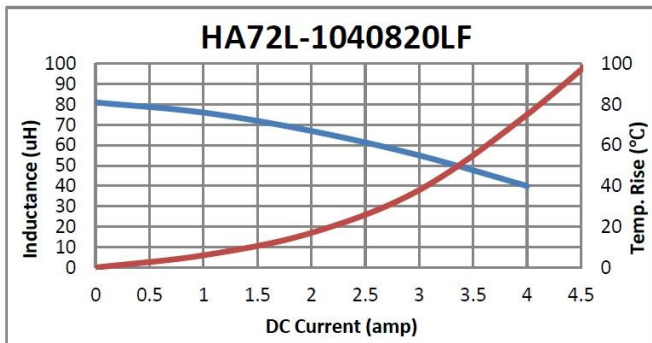
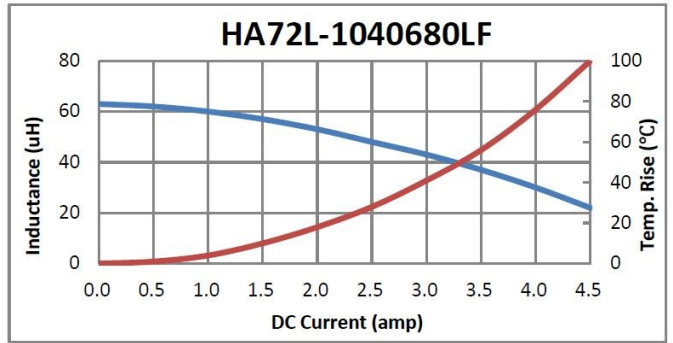
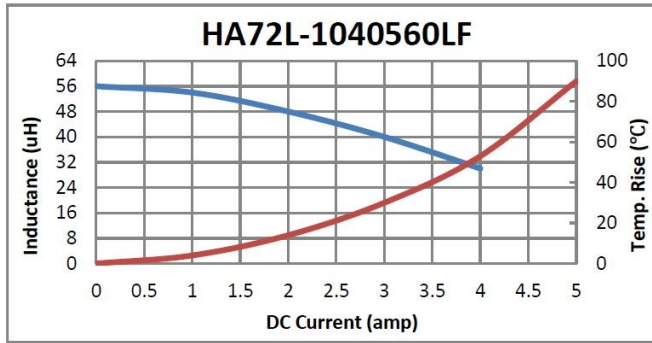
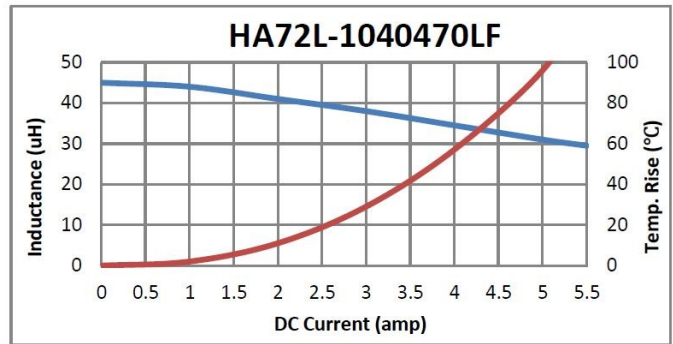
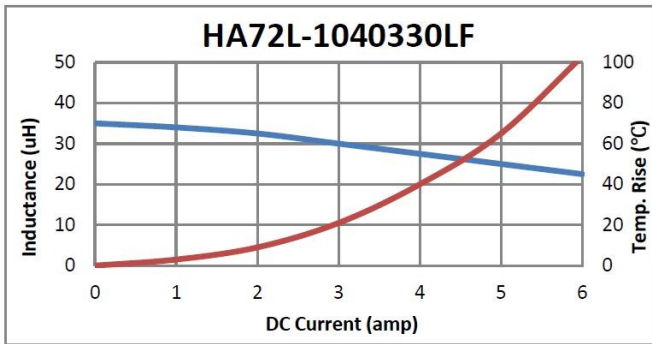
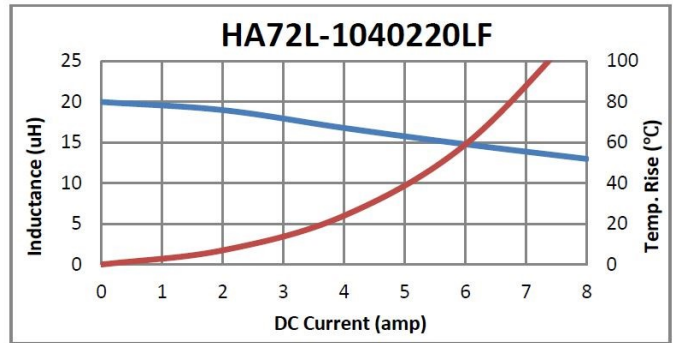
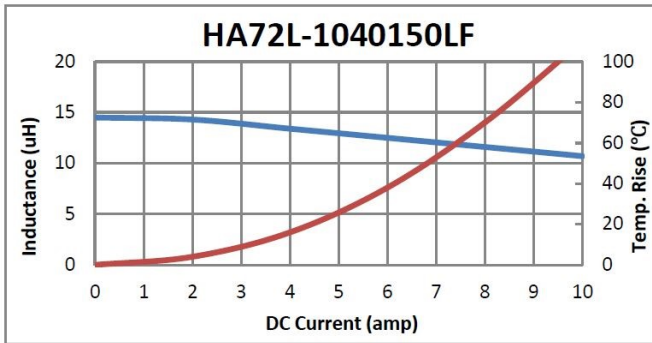


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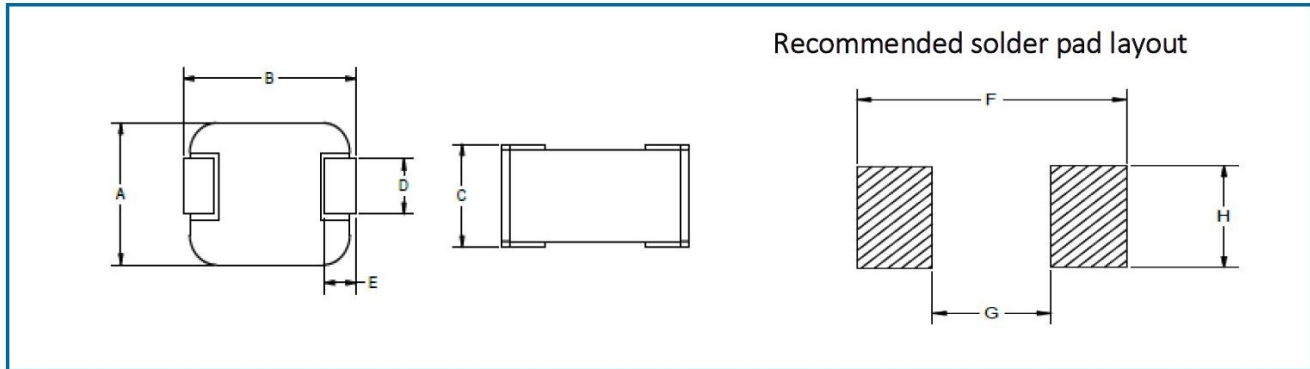
Model HA72L-1040 series



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Outline Dimensions (mm)



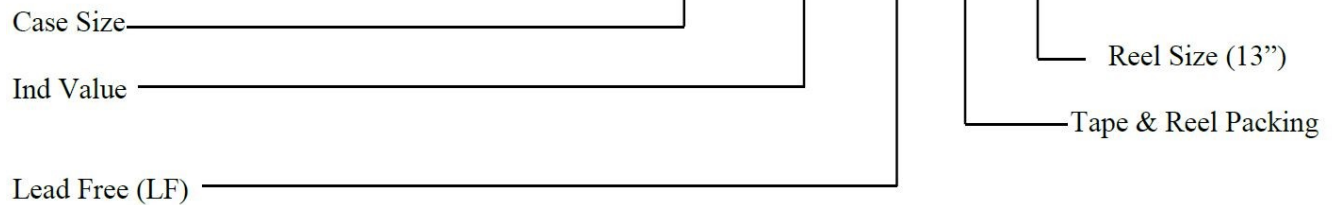
| CASE SIZE | A(mm) | B(mm) | C(mm) | D(mm) | E(mm) | F(mm) | G(mm) | H(mm) |
|-------------|------------|----------|-------|-----------|-----------|-------|-------|-------|
| 1040 series | 10.0 ± 0.3 | 11.5 Max | 4 | 2.8 ± 0.5 | 2.0 ± 0.5 | 13 | 6 | 4 |

Packaging

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

Ordering Information

HA72L – XXXX XXX LF TR XX



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