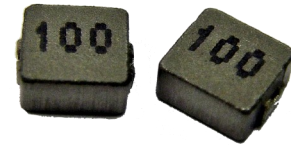


# Power Inductors

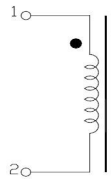
## Model HA72L-0420 series



### 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

### Schematic



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

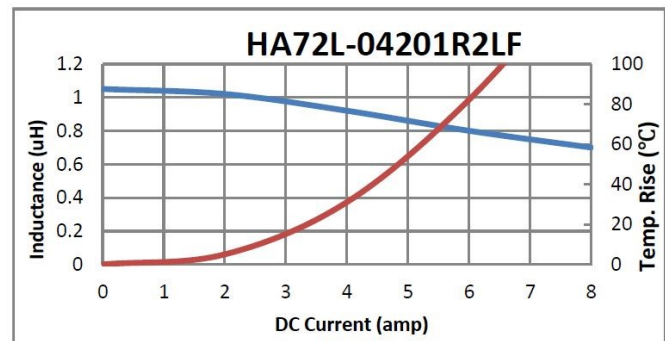
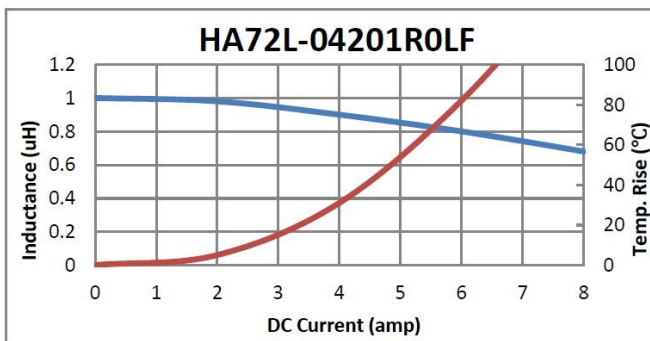
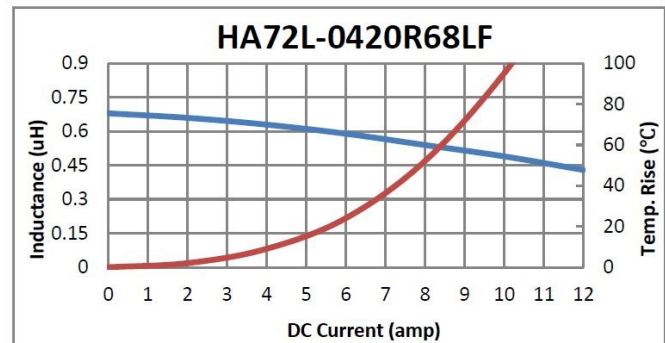
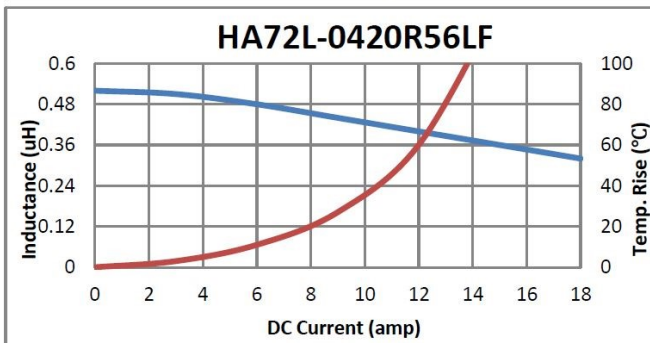
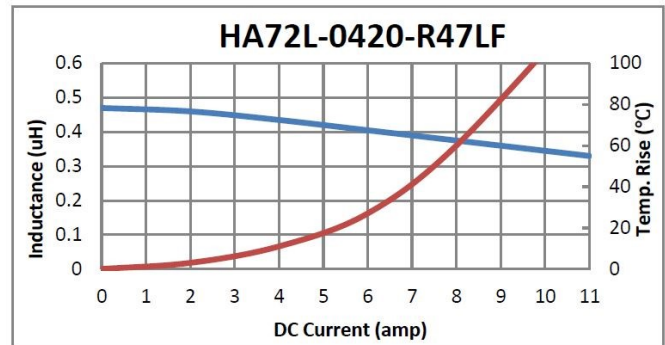
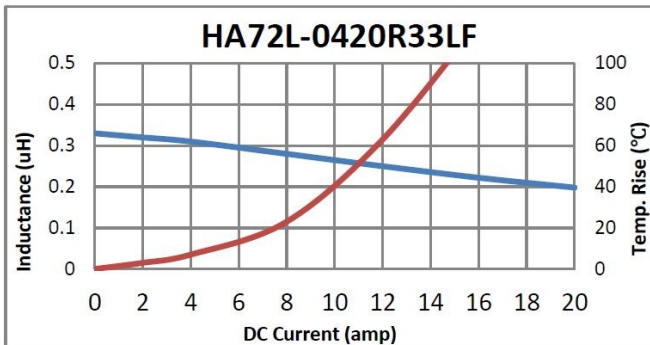
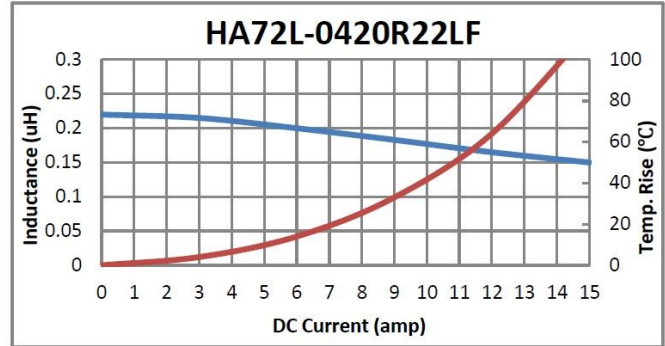
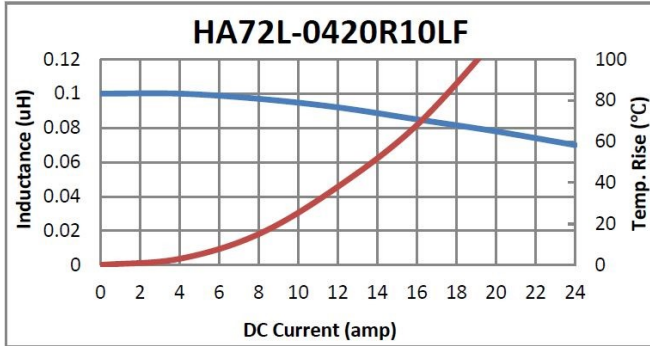
Part Number	Inductance ( $\mu\text{H} \pm 20\%$ @0A)	DCR ( $\text{m}\Omega$ ) Typ	DCR ( $\text{m}\Omega$ ) Max	I <sub>rms</sub> (A)	I <sub>sat</sub> (A)	Part Number	Inductance ( $\mu\text{H} \pm 20\%$ @0A)	DCR ( $\text{m}\Omega$ ) Typ.	DCR ( $\text{m}\Omega$ ) Max	I <sub>rms</sub> (A)	I <sub>sat</sub> (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-04202R2LFTR	2.20	52.0	58.0	3.0	5.0
HA72L-0420R33LFTR	0.33	9.6	13.0	8.0	12.0	HA72L-04203R3LFTR	3.30	74.0	87.0	2.5	4.0
HA72L-0420R47LFTR	0.47	12.5	14.0	7.0	9.5	HA72L-04204R7LFTR	4.70	98.0	110.0	2.0	3.5
HA72L-0420R56LFTR	0.56	14.0	16.0	6.5	10.0	HA72L-04205R6LFTR	5.60	105.0	115.0	1.8	3.0
HA72L-0420R68LFTR	0.68	16.0	18.0	6.0	9.0	HA72L-04206R8LFTR	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  $+155^{\circ}\text{C}$
  - (4) Test condition for all case sizes is 100kHz @ 1V

#### General Note

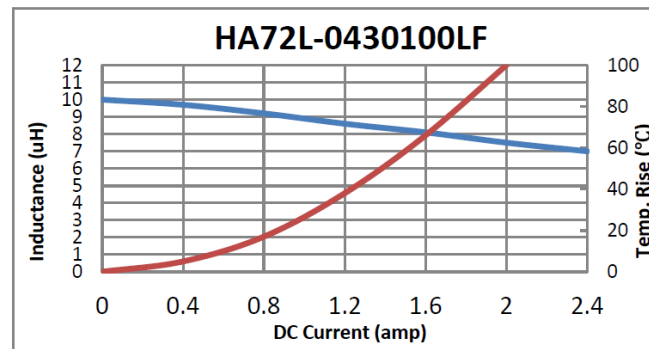
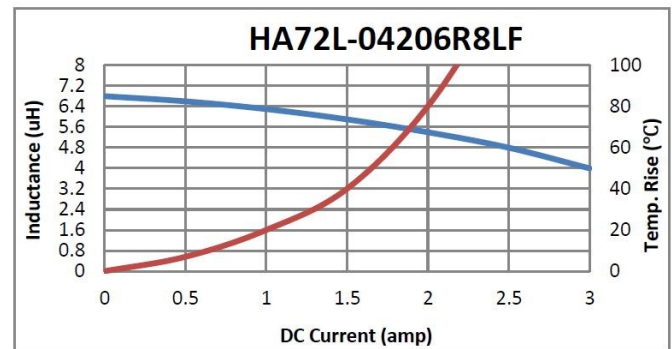
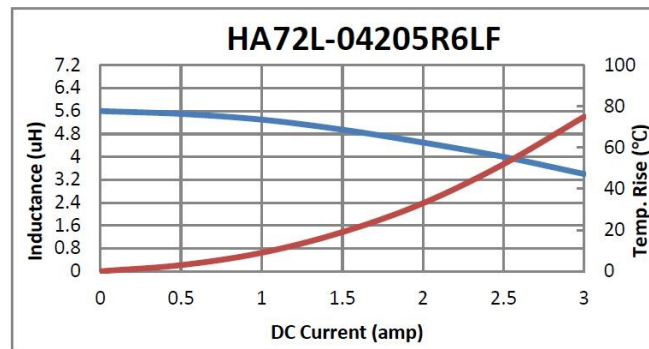
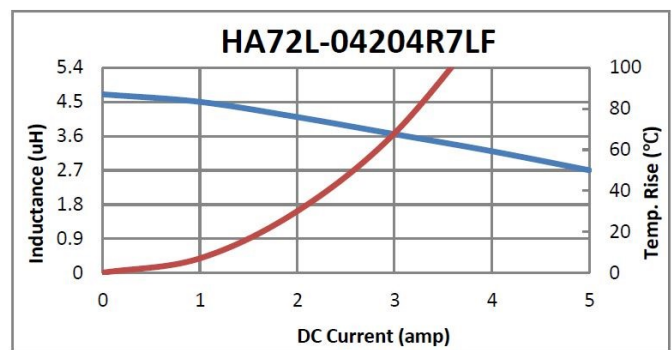
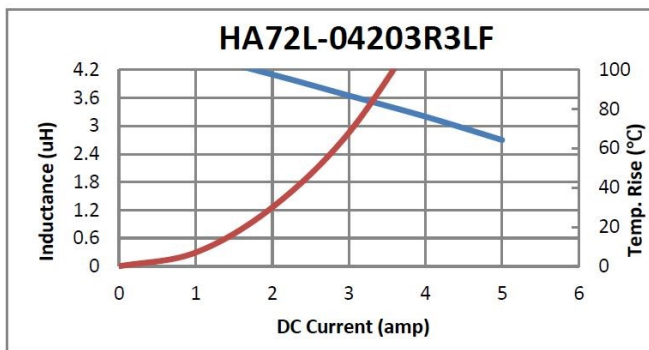
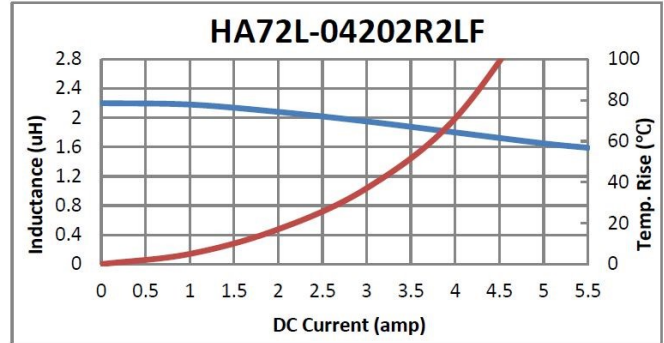
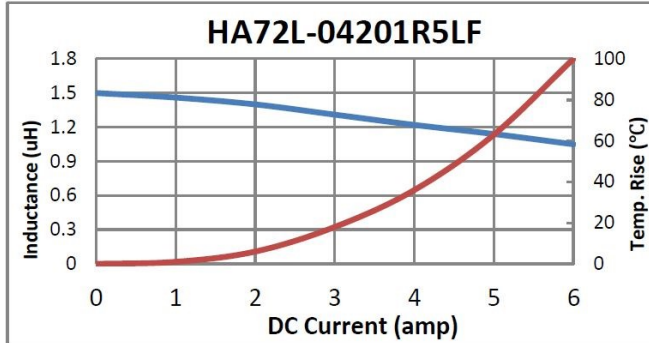
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### Electrical Specifications @ 25°C



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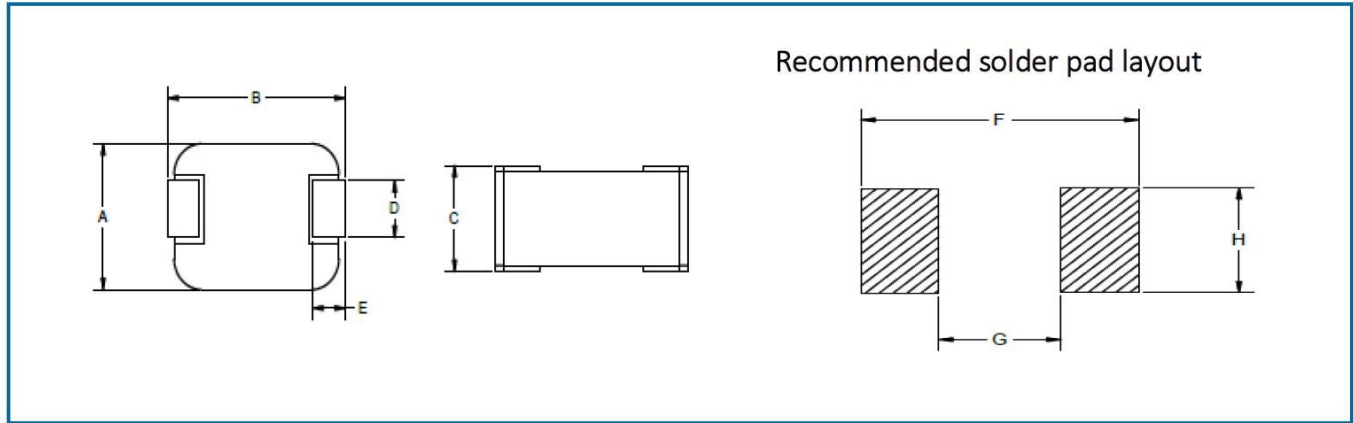
### Electrical Characteristics @ 25°C



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### Outline dimensions (mm)



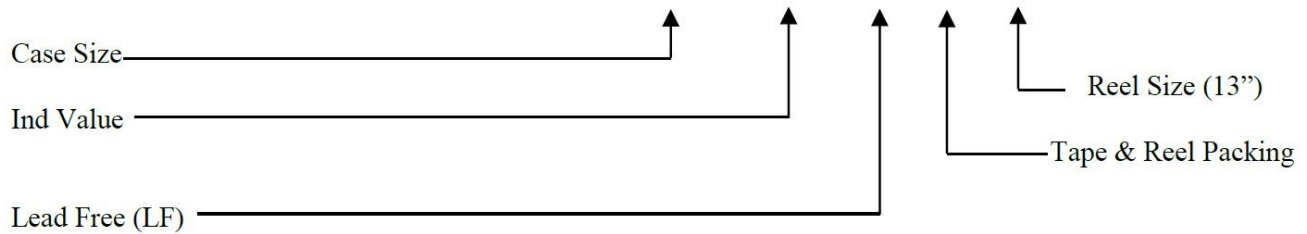
CASE SIZE	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)
0420 series	4.05 ± 0.25	4.45 ± 0.25	2	1.5 ± 0.3	0.8 ± 0.3	4.95	2.15	2.30

### Packaging

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

### Ordering information

HA72L – XXXX XXX LF TR XX



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