

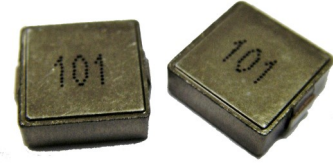
# Power Inductors

## Model HA72L-1770 series

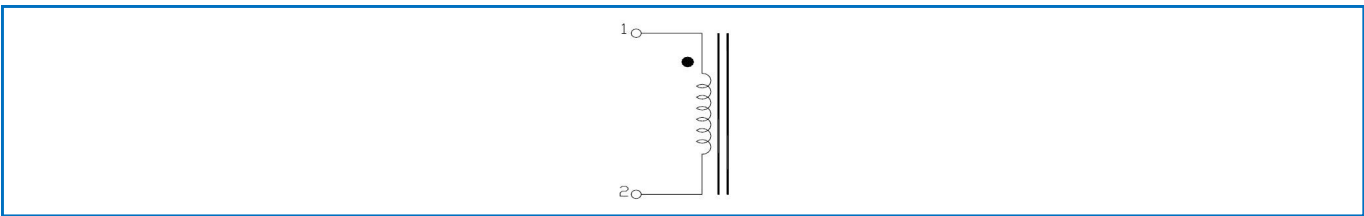


### Features:

- Operating Temperature Range  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$
- Ambient Temperature, Maximum  $+85^{\circ}\text{C}$
- Temperature Rise, Maximum  $40^{\circ}\text{C}$
- RoHS Compliant
- AEC-Q200 Certified



### Schematic



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

Part Number	Inductance ( $\mu\text{H} \pm 20\%$ @0A)	DCR (m $\Omega$ ) Typ	DCR (m $\Omega$ ) Max	I <sub>rms</sub> (A)	I <sub>sat</sub> (A)	Part Number	Inductance ( $\mu\text{H} \pm 20\%$ @0A)	DCR (m $\Omega$ ) Typ.	DCR (m $\Omega$ ) Max	I <sub>rms</sub> (A)	I <sub>sat</sub> (A)
HA72L-1770R82LFTR	0.82	0.98	1.08	56.5	45.0	HA72L-1770100LFTR	10.0	8.89	9.33	19.0	17.0
HA72L-17701R0LFTR	1.00	1.21	1.27	55.5	32.0	HA72L-1770150LFTR	15.0	13.70	14.40	14.0	12.0
HA72L-17701R5LFTR	1.50	1.54	1.62	48.0	31.0	HA72L-1770220LFTR	22.0	20.00	21.00	12.0	9.5
HA72L-17702R2LFTR	2.20	1.85	1.98	43.5	28.0	HA72L-1770330LFTR	33.0	35.10	37.00	10.7	9.0
HA72L-17703R3LFTR	3.30	2.79	2.93	35.0	27.0	HA72L-1770470LFTR	47.0	40.70	42.70	8.7	8.6
HA72L-17704R7LFTR	4.70	3.98	4.18	30.0	21.0	HA72L-1770560LFTR	56.0	55.00	57.80	7.2	4.2
HA72L-17705R6LFTR	5.60	4.23	4.44	28.0	21.0	HA72L-1770680LFTR	68.0	72.10	75.70	6.1	4.5
HA72L-17706R8LFTR	6.80	5.86	6.15	22.5	18.5	HA72L-1770820LFTR	82.0	87.30	91.70	5.5	4.5
HA72L-17708R2LFTR	8.20	7.71	8.10	21.0	18.0	HA72L-1770101LFTR	100.0	105.0	110.0	5.0	4.0

- 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 conditions for all case sizes is 100kHz @ 1V

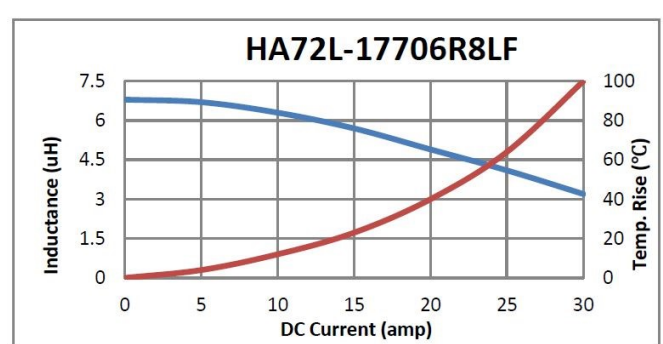
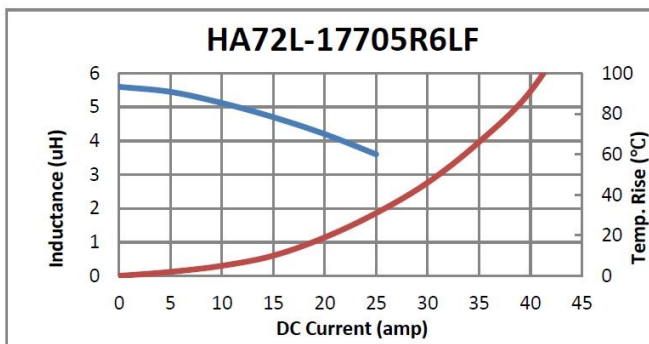
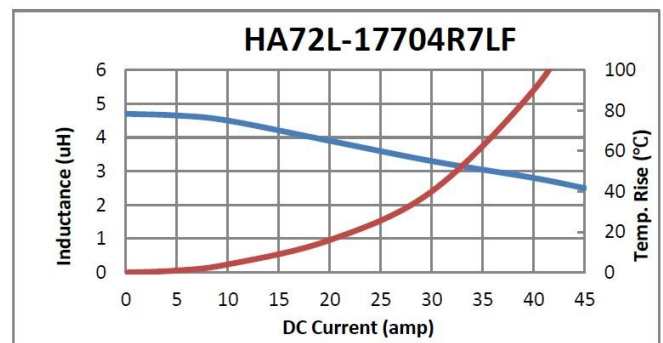
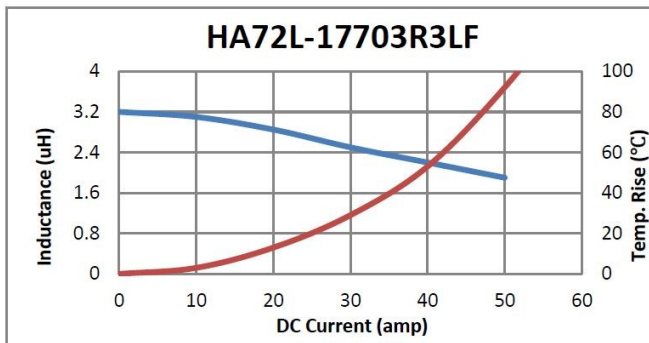
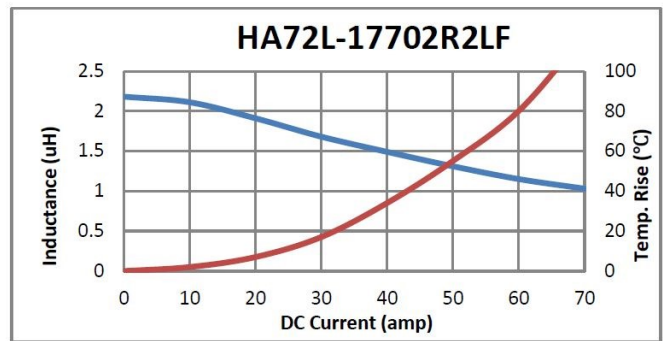
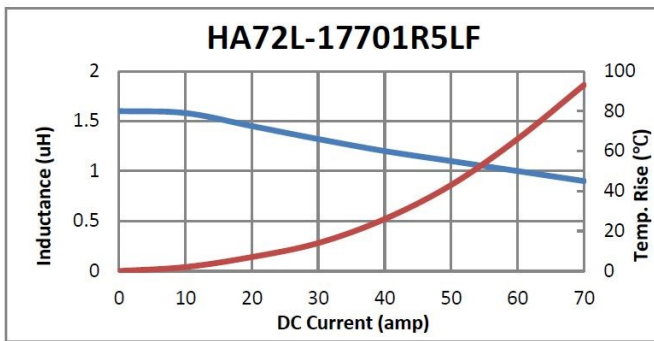
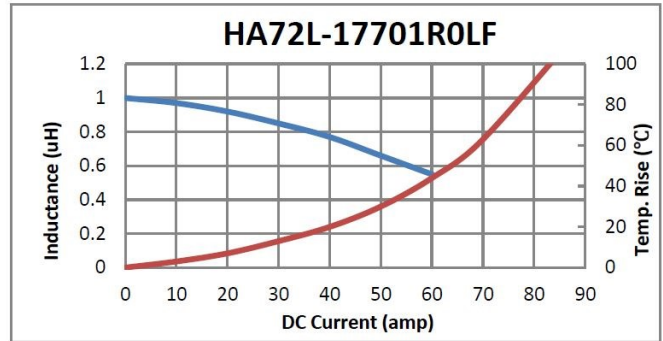
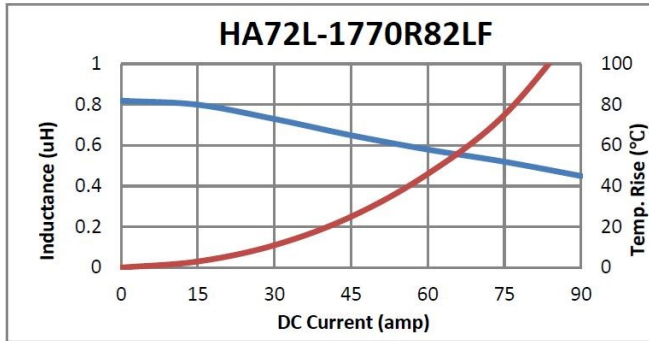
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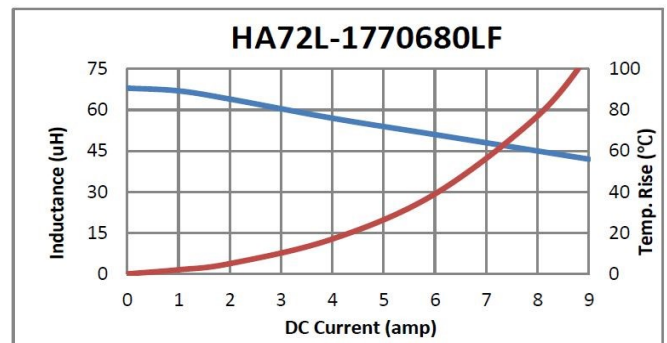
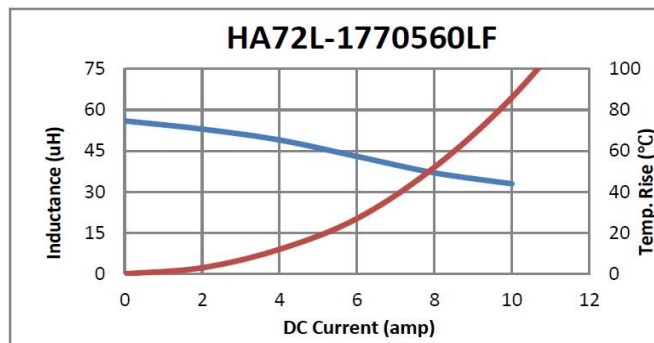
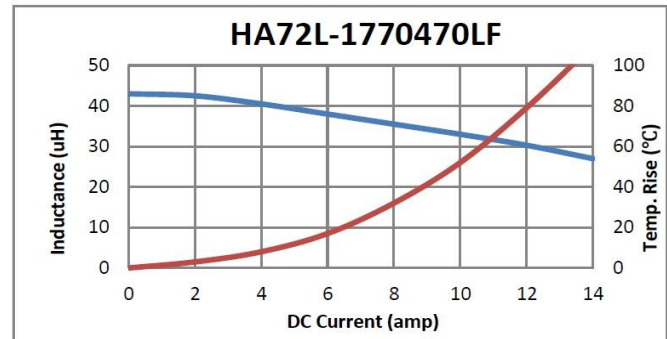
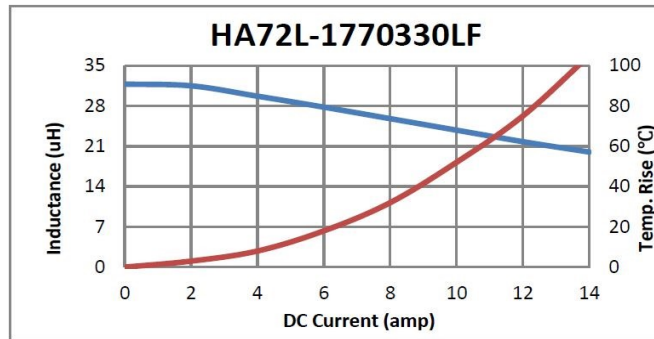
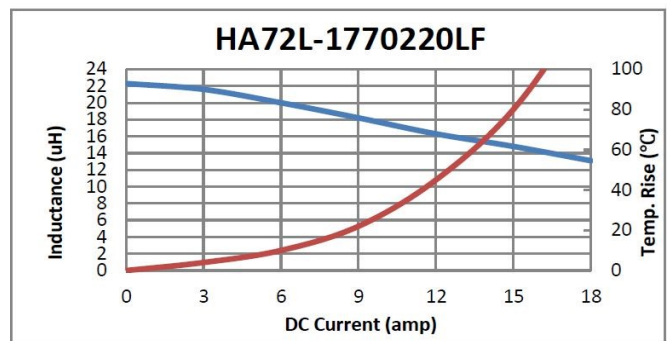
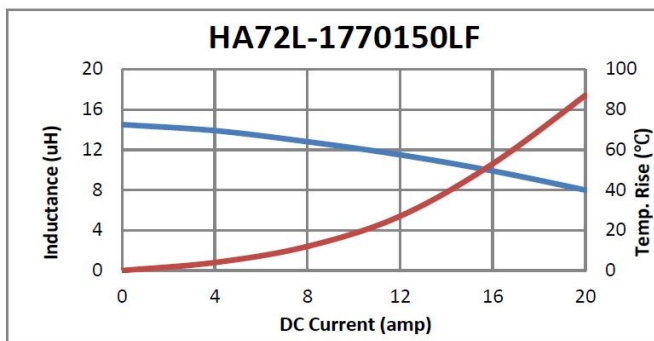
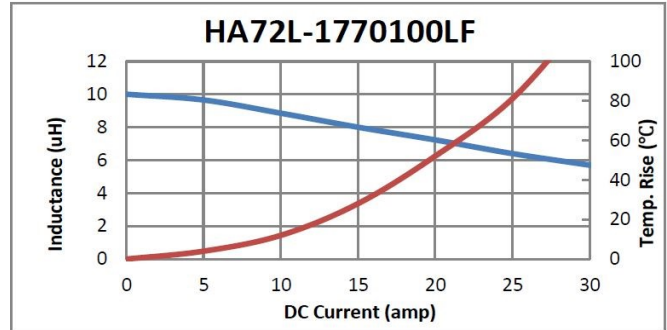
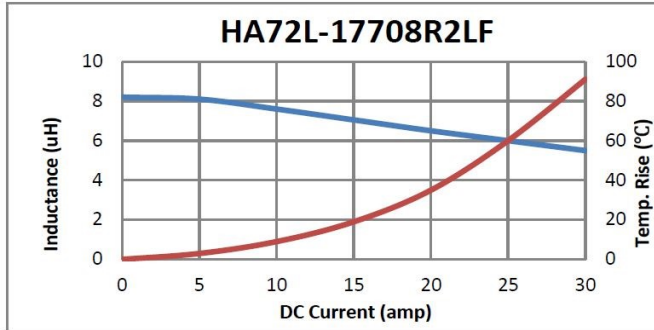
### Electrical Characteristics @ 25°C



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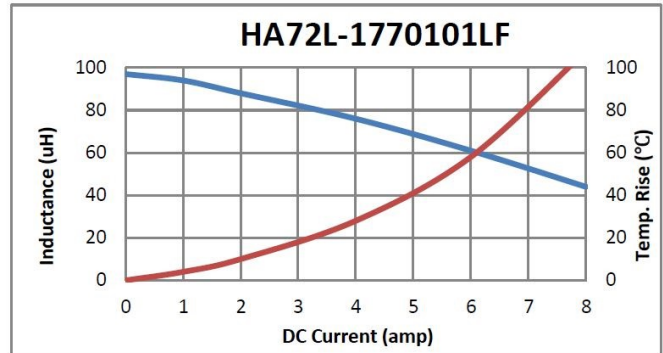
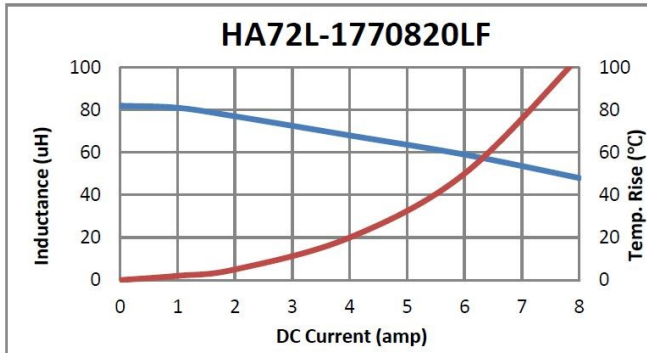
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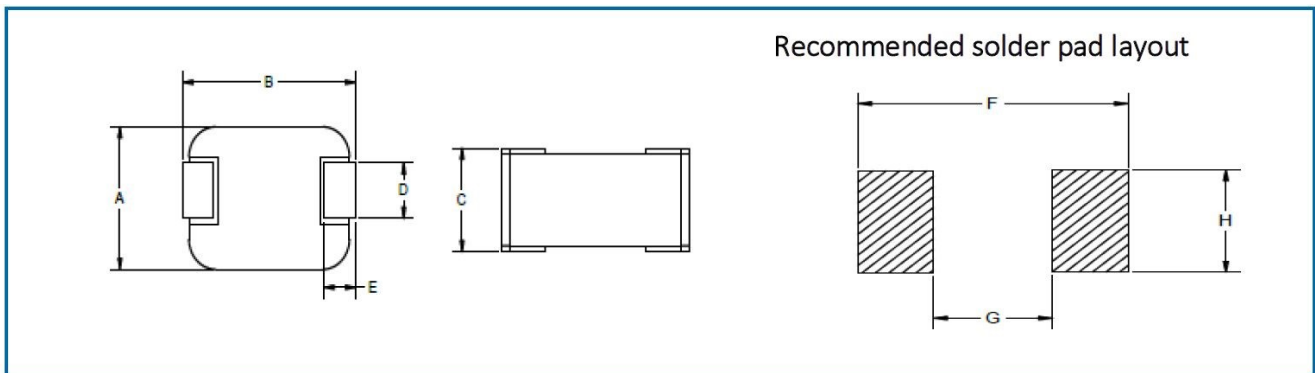


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### Outline dimensions (mm)

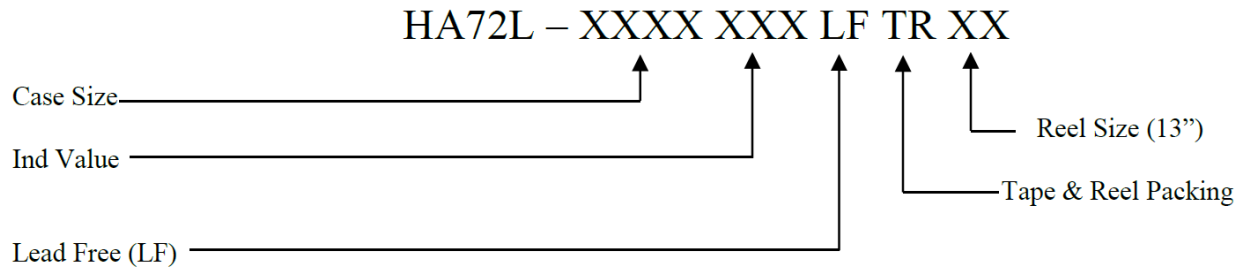


CASE SIZE	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)
1770 series	17.15 Max	18.0 ± 0.3	7	11.94 ± 0.3	2.7 ± 0.4	18.03	11.68	12.09

### Packaging

Standard:	Embossed Tape and Reel		
	Reel:	Diameter	All case size = 13" (330mm)
		Capacity	Case size 1770 = 150 units

### Ordering information



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