

# Power Inductors

## HA72L-0630 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



### Description:

HA72L series molded inductors are designed with the latest composite molded core materials to maximize inductance, temperature performance and saturation current while minimizing DC resistance and physical size. The result is a compact, surface mount component that operates in demanding environments with saturation currents up to 80 amps. It is mechanically robust, magnetically shielded and resists corrosion in humid environments.

The HA72L series has been designed as a  $155^{\circ}\text{C}$  high temperature rated molded inductor for high stress environments that require high current saturation levels. It is ideal for high power density applications where size is critical and AEC-Q200 performance is certified.

They are also ideal for high efficiency DC-DC converters using high switching frequencies to 3 MHz as well as EMI and low pass DC ripple filters in high temperature environments. Molded inductors deliver clean power in a small, lightweight surface mount package. AEC-Q200 certification assures performance and reliability levels that automotive applications demand.

### Applications:

- Transportation
  - Lighting
  - Engine Control
  - Transmission control
  - Powertrain
  - Braking
  - Electric power steering

#### General Note

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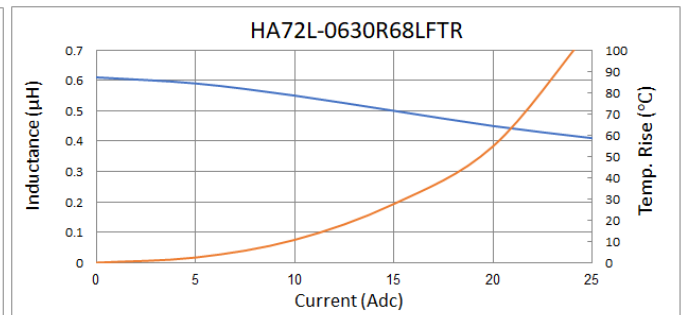
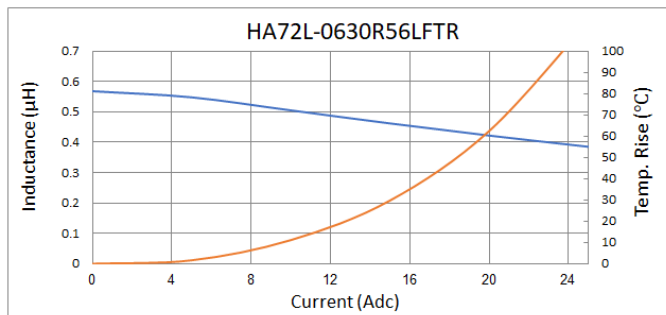
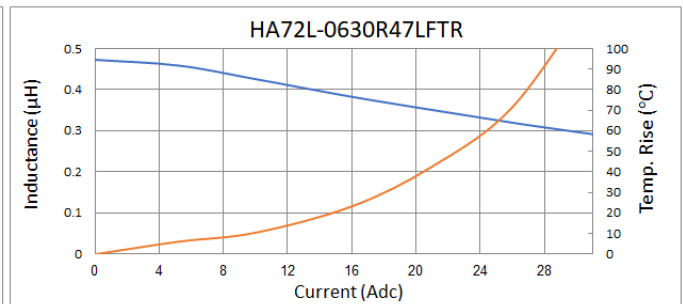
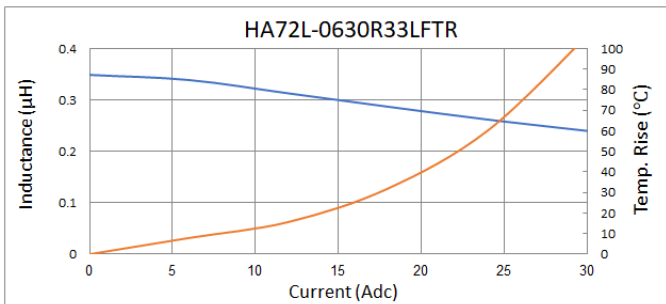
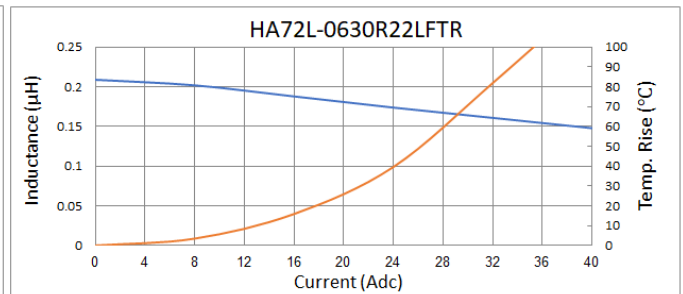
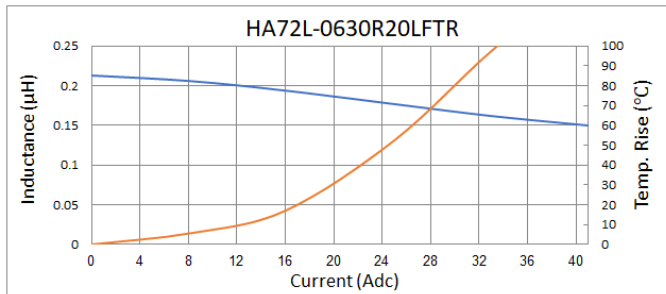
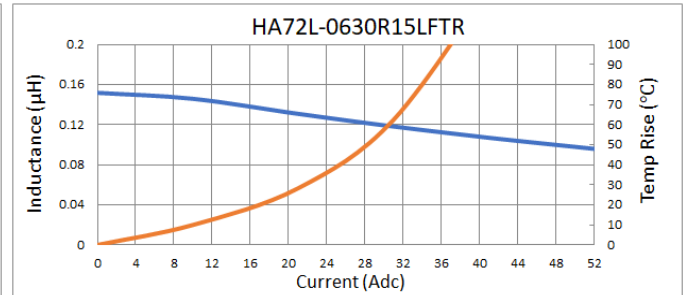
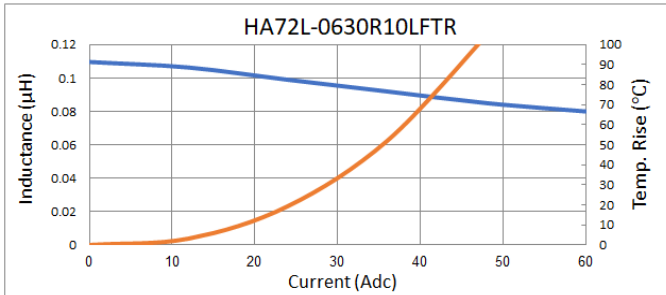
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### Electrical Specifications

Part Number	Inductance ( $\mu\text{H} \pm 20\%$ @0A)	DCR (m $\Omega$ ) Typ	DCR (m $\Omega$ ) Max	Irms (A) - typ	Isat(A)- typ
HA72L-0630R10LFTR	0.10	1.5	1.7	32.5	60.0
HA72L-0630R15LFTR	0.15	1.9	2.5	26.0	52.0
HA72L-0630R20LFTR	0.20	2.4	3.0	24.0	41.0
HA72L-0630R22LFTR	0.22	2.5	2.8	23.0	40.0
HA72L-0630R33LFTR	0.33	3.5	3.9	20.0	30.0
HA72L-0630R47LFTR	0.47	4.0	4.2	17.5	26.0
HA72L-0630R56LFTR	0.56	5.0	5.5	15.5	25.0
HA72L-0630R68LFTR	0.68	5.0	5.5	15.5	25.0
HA72L-0630R82LFTR	0.82	6.7	8.0	13.0	24.0
HA72L-06301R0LFTR	1.00	9.0	10.0	11.0	22.0
HA72L-06301R5LFTR	1.50	14.0	15.0	9.0	18.0
HA72L-06302R2LFTR	2.20	18.0	20.0	8.0	14.0
HA72L-06303R3LFTR	3.30	28.0	30.0	6.0	13.5
HA72L-06304R7LFTR	4.70	37.0	40.0	5.5	10.0
HA72L-06305R6LFTR	5.60	52.0	60.0	4.8	10.0
HA72L-06306R8LFTR	6.80	54.0	60.0	4.5	8.0
HA72L-06308R2LFTR	8.20	64.0	68.0	4.0	7.5
HA72L-0630100LFTR	10.0	102.0	105.0	3.0	7.0
HA72L-0630150LFTR	15.0	110.0	125.0	3.5	3.0
HA72L-0630220LFTR	22.0	129.0	135.0	2.9	2.5
HA72L-0630330LFTR	33.0	144.0	220.0	3.1	2.0

- Notes:
- (1) Typical Heat Rating DC Current would cause an approximately  $\Delta T$  of 40°C
  - (2) Typical Saturation DC Current would cause  $L_o$  to drop maximum 40% drop for unbiased condition
  - (3) Test condition for all case sizes is 100kHz @ 1V

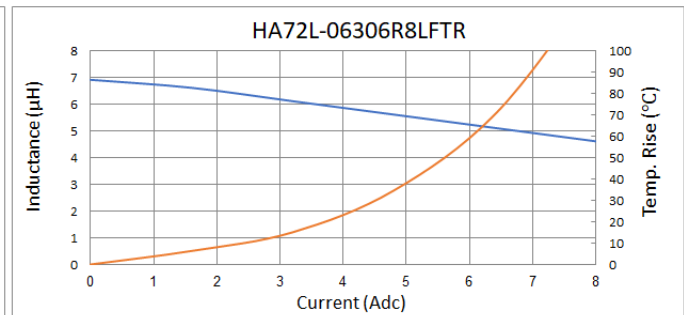
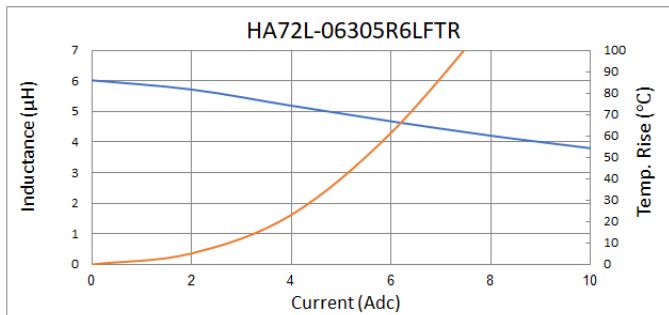
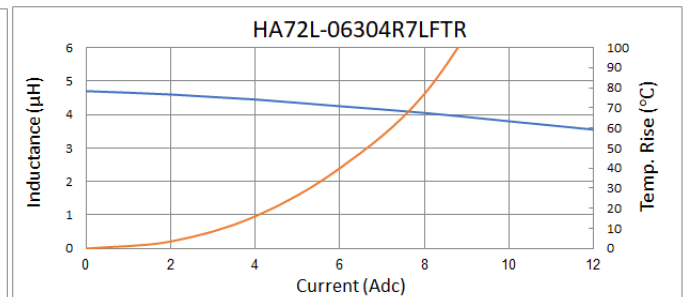
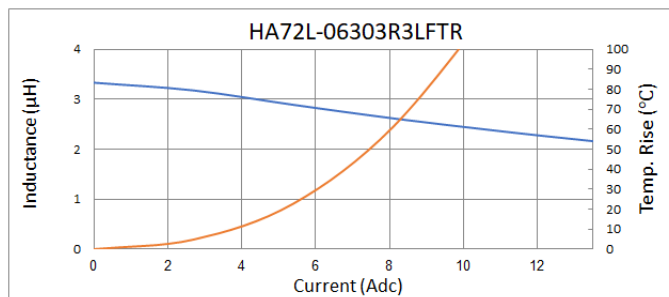
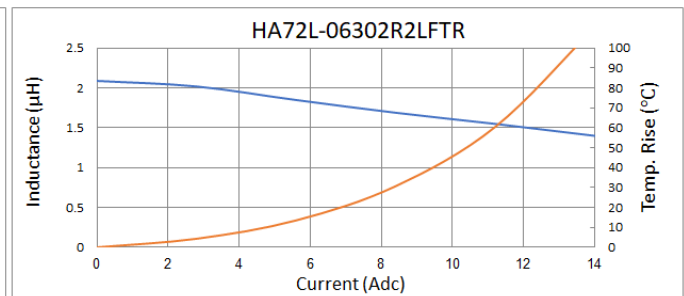
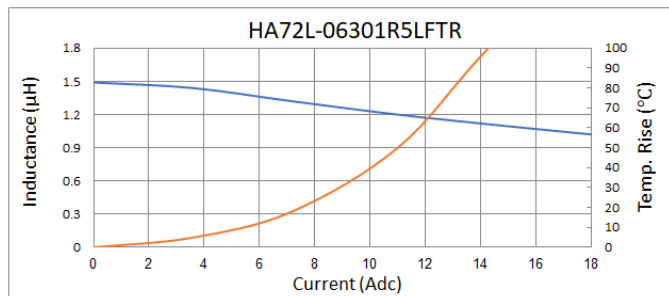
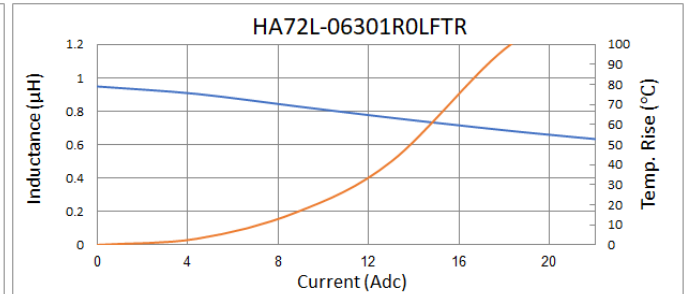
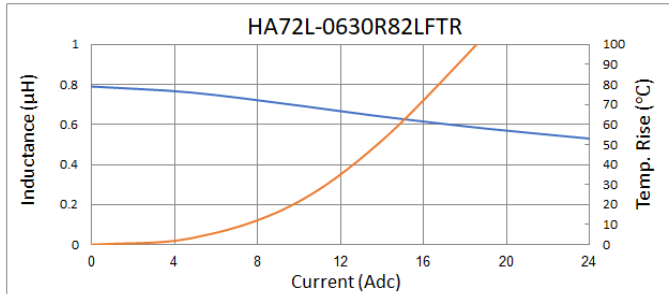
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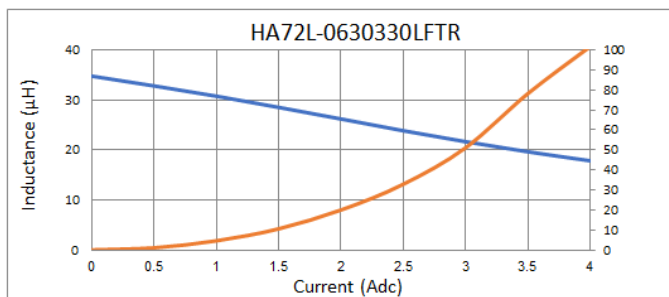
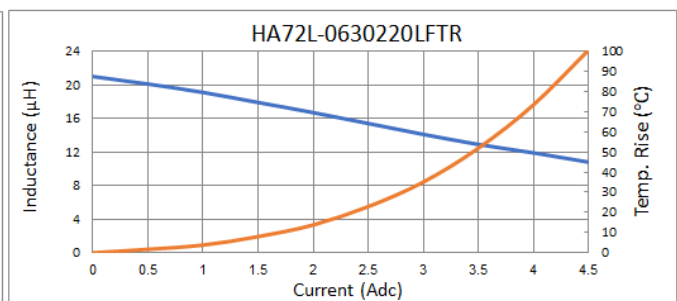
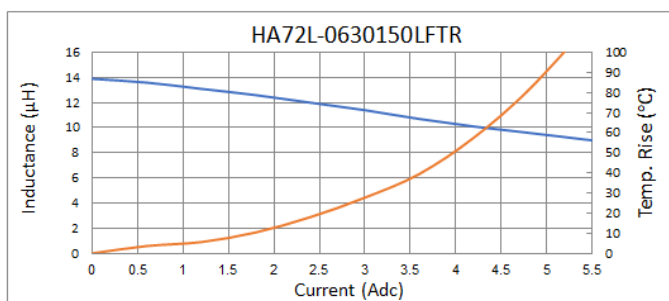
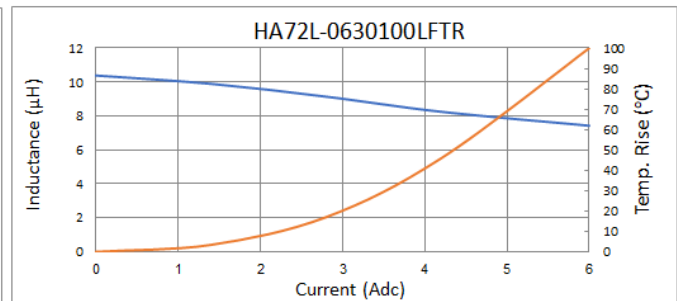
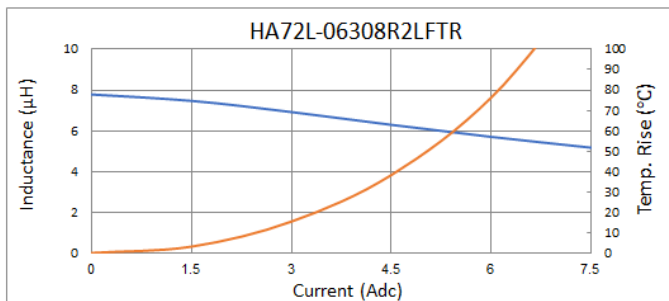
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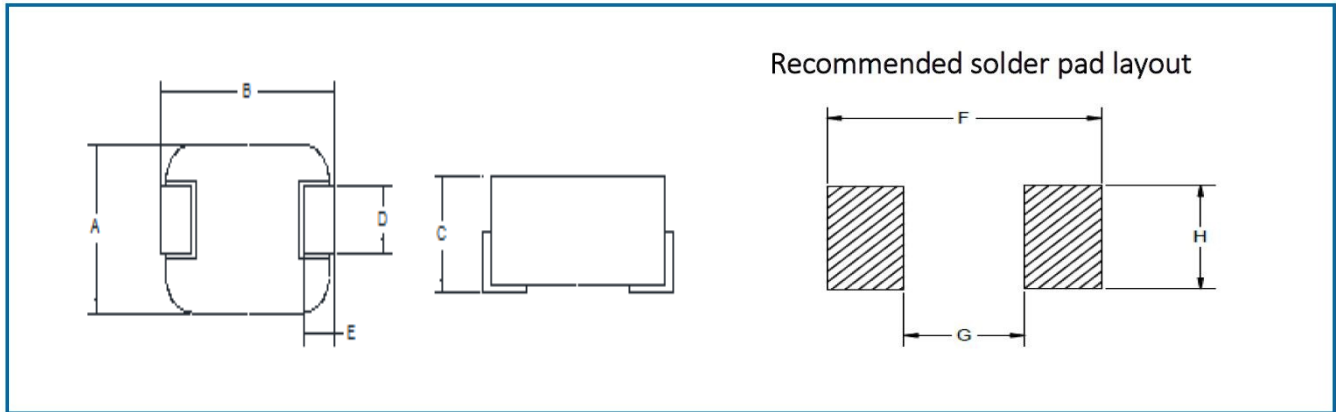
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### Outline Dimensions (mm)

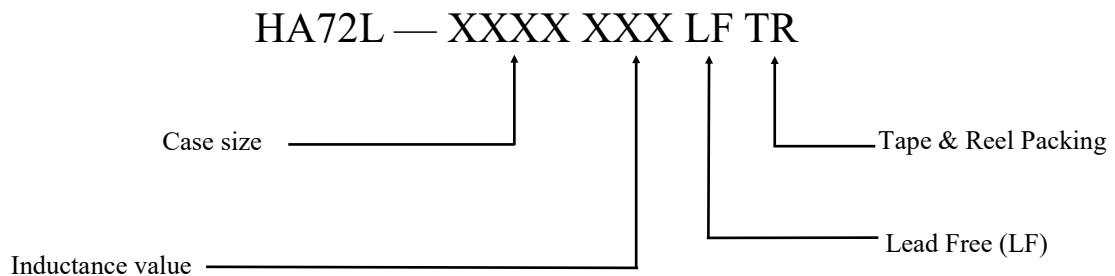


CASE SIZE	A(mm)	B(mm)	C-max (mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)
0630 series	6.6 ± 0.3	7.1 ± 0.3	3	3.0 ± 0.3	1.6 ± 0.5	7.40	3.70	3.50

### Packaging

Standard	Embossed Tape and Reel			
	Reel	Diameter :	All case size	= 13'' (330mm)
		Capacity :	Case size 0630 series	= 1,000 units

### Ordering Information



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