

# Power Inductors

## Model HA72L



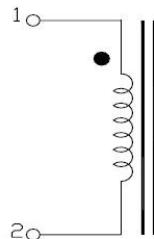
### Features:

- 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



All parts are Pb-free and comply with EU Directive 2011/65/EU (RoHS2)

### 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	Irms (A)	Isat (A)	Part Number	Inductance ( $\mu\text{H} \pm 20\%$ @0A)	DCR ( $\text{m}\Omega$ ) Typ.	DCR ( $\text{m}\Omega$ ) Max	Irms (A)	Isat (A)
HA72L-0420R10LFTR	0.10	3.5	4.0	12.0	22.0	HA72L-0420100LFTR	10.0	256.0	282.0	1.2	2.2
HA72L-0420R22LFTR	0.22	6.0	6.6	9.0	12.5	HA72L-0530R20LFTR	0.20	3.5	3.9	18.0	14.5
HA72L-0420R33LFTR	0.33	9.6	13.0	8.0	12.0	HA72L-0530R47LFTR	0.47	7.4	8.5	13.5	12.0
HA72L-0420R47LFTR	0.47	12.5	14.0	7.0	9.5	HA72L-0530R68LFTR	0.68	11.0	12.0	8.5	14.0
HA72L-0420R56LFTR	0.56	14.0	16.0	6.5	10.0	HA72L-05301R0LFTR	1.00	13.0	14.0	7.0	11.0
HA72L-0420R68LFTR	0.68	16.0	18.0	6.0	9.0	HA72L-05301R2LFTR	1.20	15.0	16.0	6.5	11.0
HA72L-04201R0LFTR	1.00	24.0	27.0	4.5	7.0	HA72L-05301R5LFTR	1.50	20.0	25.0	6.0	8.5
HA72L-04201R2LFTR	1.20	24.0	27.0	4.5	7.0	HA72L-05302R2LFTR	2.20	25.0	29.0	5.5	7.5
HA72L-04201R5LFTR	1.50	38.0	46.0	4.0	6.0	HA72L-05303R3LFTR	3.30	32.0	38.0	5.0	6.0
HA72L-04202R2LFTR	2.20	52.0	58.0	3.0	5.0	HA72L-05304R7LFTR	4.70	50.0	60.0	3.5	5.0
HA72L-04203R3LFTR	3.30	74.0	87.0	2.5	4.0	HA72L-05306R8LFTR	6.80	75.0	90.0	3.0	4.0
HA72L-04204R7LFTR	4.70	98.0	110.0	2.0	3.5	HA72L-0530100LFTR	10.0	110	125	2.5	3.5
HA72L-04205R6LFTR	5.60	105.0	115.0	1.8	3.0	HA72L-0624R10LFTR	0.10	1.5	1.7	30.0	50.0
HA72L-04206R8LFTR	6.80	160.0	175.0	1.5	2.5	HA72L-0624R22LFTR	0.22	2.9	3.2	21.0	34.0

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# Power Inductor

## Model HA72L



### Specifications @ 25°C (Continued)

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HA72L-0624R33LFTR	0.33	3.7	4.1	18.0	22.0	HA72L-1040R56LFTR	0.56	1.6	1.8	32.0	22.0
HA72L-0624R47LFTR	0.47	6.0	6.5	13.5	21.0	HA72L-1040R78LFTR	0.78	1.8	1.9	27.0	22.0
HA72L-0624R68LFTR	0.68	8.7	9.4	11.0	18.0	HA72L-10401R0LFTR	1.00	2.3	2.5	25.0	20.0
HA72L-0624R82LFTR	0.82	10.6	11.8	10.0	17.0	HA72L-10401R2LFTR	1.20	2.3	2.5	25.0	20.0
HA72L-06241R0LFTR	1.00	13.1	14.2	9.0	16.0	HA72L-10401R8LFTR	1.80	4.5	5.0	17.0	16.0
HA72L-06241R5LFTR	1.50	18.5	21.2	7.5	15.0	HA72L-10402R0LFTR	2.00	5.2	5.8	16.0	14.0
HA72L-06242R2LFTR	2.20	28.0	34.0	6.5	14.0	HA72L-10403R3LFTR	3.30	8.2	9.0	12.0	14.0
HA72L-06243R3LFTR	3.30	36.5	51.6	5.0	13.0	HA72L-10404R7LFTR	4.70	12.9	14.2	9.5	7.6
HA72L-06244R7LFTR	4.70	45.0	63.0	4.5	9.0	HA72L-10405R6LFTR	5.60	15.5	16.5	9.2	7.4
HA72L-06245R6LFTR	5.60	66.0	73.0	4.0	8.0	HA72L-10406R8LFTR	6.80	17.5	19.3	9.0	7.5
HA72L-06246R8LFTR	6.80	72.5	95.0	3.6	7.0	HA72L-10408R2LFTR	8.20	22.0	24.0	8.3	7.3
HA72L-06248R2LFTR	8.20	95.0	106.0	3.0	6.5	HA72L-104100LFTR	10.0	27.80	30.50	7.5	7.1
HA72L-0624100LFTR	10.0	115.6	129.0	2.5	6.0	HA72L-104150LFTR	15.0	40.90	45.00	6.25	6.0
HA72L-0630R10LFTR	0.10	1.5	1.7	32.5	60.0	HA72L-1040220LFTR	22.0	60.40	66.00	5.0	4.5
HA72L-0630R15LFTR	0.15	1.9	2.5	26.0	52.0	HA72L-1040330LFTR	33.0	87.50	94.50	4.4	4.0
HA72L-0630R20LFTR	0.20	2.4	3.0	24.0	41.0	HA72L-1040470LFTR	47.0	132.0	145.0	4.0	3.0
HA72L-0630R22LFTR	0.22	2.5	2.8	23.0	40.0	HA72L-1040560LFTR	56.0	150.0	170.0	3.8	2.8
HA72L-0630R33LFTR	0.33	3.5	3.9	20.0	30.0	HA72L-1040680LFTR	68.0	175.0	200.0	3.5	2.6
HA72L-0630R47LFTR	0.47	4.0	4.2	17.5	26.0	HA72L-1040820LFTR	82.0	210.0	240.0	3.2	2.4
HA72L-0630R56LFTR	0.56	5.0	5.5	15.5	25.0	HA72L-1040101LFTR	100.0	249.0	270.0	3.0	2.25
HA72L-0630R68LFTR	0.68	5.0	5.5	15.5	25.0	HA72L-1050R30LFTR	0.30	0.60	0.80	38.0	50.0
HA72L-0630R82LFTR	0.82	6.7	8.0	13.0	24.0	HA72L-1050R36LFTR	0.36	0.68	0.82	30.0	32.0
HA72L-06301R0LFTR	1.00	9.0	10.0	11.0	22.0	HA72L-1050R47LFTR	0.47	1.20	1.40	32.0	32.0
HA72L-06301R5LFTR	1.50	14.0	15.0	9.0	18.0	HA72L-1050R56LFTR	0.56	1.40	1.60	30.0	30.0
HA72L-06302R2LFTR	2.20	18.0	20.0	8.0	14.0	HA72L-1050R68LFTR	0.68	1.60	1.80	25.0	30.0
HA72L-06303R3LFTR	3.30	28.0	30.0	6.0	13.5	HA72L-10501R0LFTR	1.00	2.20	2.50	25.0	40.0
HA72L-06304R7LFTR	4.70	37.0	40.0	5.5	10.0	HA72L-10501R5LFTR	1.50	2.20	3.00	20.0	30.0
HA72L-06305R6LFTR	5.60	52.0	60.0	4.8	10.0	HA72L-10502R2LFTR	2.20	4.00	4.60	17.0	20.0
HA72L-06306R8LFTR	6.80	54.0	60.0	4.5	8.0	HA72L-10502R8LFTR	2.80	5.60	6.50	12.0	18.0
HA72L-06308R2LFTR	8.20	64.0	68.0	4.0	7.5	HA72L-1050100LFTR	10.0	21.00	25.20	7.2	10.0
HA72L-0630100LFTR	10.0	102.0	105.0	3.0	7.0	HA72L-1050150LFTR	15.0	29.30	35.00	5.9	8.0
HA72L-0630150LFTR	15.0	110.0	125.0	3.5	3.0	HA72L-1250R10LFTR	0.10	0.53	0.60	55.0	80
HA72L-0630220LFTR	22.0	129.0	135.0	2.9	2.5	HA72L-1250R22LFTR	0.22	0.64	0.80	51.0	80
HA72L-1040R19LFTR	0.19	0.70	0.80	40.0	46.0	HA72L-1250R33LFTR	0.33	0.85	1.20	42.0	80
HA72L-1040R24LFTR	0.24	0.85	0.95	33.0	44.0	HA72L-1250R47LFTR	0.47	1.10	1.30	38.0	65.0
HA72L-1040R36LFTR	0.36	1.05	1.15	32.0	30.0	HA72L-1250R56LFTR	0.56	1.30	1.60	36.0	55.0
HA72L-1040R47LFTR	0.47	1.53	1.68	30.0	30.0	HA72L-1250R68LFTR	0.68	1.50	1.70	34.0	54.0

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### Specifications @ 25°C (Continued)

Part Number	Inductance ( $\mu$ H $\pm 20\%$ @0A)	DCR (m $\Omega$ ) Typ	DCR (m $\Omega$ ) Max	Irms (A)	Isat (A)	Part Number	Inductance ( $\mu$ H $\pm 20\%$ @0A)	DCR (m $\Omega$ ) Typ.	DCR (m $\Omega$ ) Max	Irms (A)	Isat (A)
HA72L-1250R82LFTR	0.82	2.00	2.30	31.0	53.0	HA72L-12652R8LFTR	2.80	4.20	4.80	20.0	25.0
HA72L-12501R0LFTR	1.00	2.10	2.50	29.0	50.0	HA72L-12653R3LFTR	3.30	5.70	6.80	18.0	35.0
HA72L-12501R2LFTR	1.20	2.80	3.50	25.0	49.0	HA72L-12654R2LFTR	4.20	5.80	7.20	11.0	28.0
HA72L-12501R5LFTR	1.50	3.40	4.10	23.0	38.0	HA72L-12654R7LFTR	4.70	9.30	11.20	13.5	30.0
HA72L-12501R8LFTR	1.80	4.20	4.90	19.0	35.0	HA72L-12655R6LFTR	5.60	11.80	12.80	12.0	26.5
HA72L-12502R2LFTR	2.20	4.60	5.50	20.0	32.0	HA72L-12656R8LFTR	6.80	13.10	14.00	11.5	16.5
HA72L-12502R7LFTR	2.70	5.70	6.80	18.0	32.0	HA72L-12658R2LFTR	8.20	14.50	15.50	10.5	16.0
HA72L-12503R3LFTR	3.30	7.70	9.20	15.0	32.0	HA72L-1265100LFTR	10.0	15.80	16.80	10.0	15.5
HA72L-12504R7LFTR	4.70	12.80	15.00	12.0	27.0	HA72L-1265120LFTR	12.0	23.00	26.00	9.0	14.0
HA72L-12505R6LFTR	5.60	14.00	16.50	11.5	22.0	HA72L-1265150LFTR	15.0	25.00	29.00	6.0	9.0
HA72L-12506R8LFTR	6.80	15.40	18.50	11.0	21.0	HA72L-1265220LFTR	22.0	34.00	39.50	5.0	7.5
HA72L-12507R8LFTR	7.80	17.20	20.50	10.0	18.0	HA72L-1265330LFTR	33.0	55.00	65.00	4.0	6.0
HA72L-12508R2LFTR	8.20	18.90	22.50	9.5	18.0	HA72L-1265470LFTR	47.0	80.00	92.00	3.0	5.0
HA72L-1250100LFTR	10.0	21.40	25.50	9.0	16.0	HA72L-1265680LFTR	68.0	122.0	134.0	2.0	3.5
HA72L-1250150LFTR	15.0	44.00	48.00	6.0	9.0	HA72L-1770R82LFTR	0.82	0.98	1.08	56.5	45.0
HA72L-1250220LFTR	22.0	50.00	58.00	5.5	8.0	HA72L-17701R0LFTR	1.00	1.21	1.27	55.5	32.0
HA72L-1250330LFTR	33.0	75.00	84.00	3.5	6.0	HA72L-17701R5LFTR	1.50	1.54	1.62	48.0	31.0
HA72L-1250470LFTR	47.0	138.00	152.00	2.0	4.0	HA72L-17702R2LFTR	2.20	1.85	1.98	43.5	28.0
HA72L-1265R10LFTR	0.10	0.47	0.50	60.0	80.0	HA72L-17703R3LFTR	3.30	2.79	2.93	35.0	27.0
HA72L-1265R15LFTR	0.15	0.53	0.60	55.0	80.0	HA72L-17704R7LFTR	4.70	3.98	4.18	30.0	21.0
HA72L-1265R22LFTR	0.22	0.63	0.70	53.0	80.0	HA72L-17705R6LFTR	5.60	4.23	4.44	28.0	21.0
HA72L-1265R30LFTR	0.30	0.70	0.80	48.0	72.0	HA72L-17706R8LFTR	6.80	5.86	6.15	22.5	18.5
HA72L-1265R33LFTR	0.33	0.83	0.90	46.0	65.0	HA72L-17708R2LFTR	8.20	7.71	8.10	21.0	18.0
HA72L-1265R40LFTR	0.40	0.90	1.00	44.0	64.0	HA72L-1770100LFTR	10.0	8.89	9.33	19.0	17.0
HA72L-1265R47LFTR	0.47	1.00	1.20	41.0	63.0	HA72L-1770150LFTR	15.0	13.70	14.40	14.0	12.0
HA72L-1265R56LFTR	0.56	1.20	1.40	37.0	62.0	HA72L-1770220LFTR	22.0	20.00	21.00	12.0	9.5
HA72L-1265R68LFTR	0.68	1.40	1.60	35.0	60.0	HA72L-1770330LFTR	33.0	35.10	37.00	10.7	9.0
HA72L-1265R82LFTR	0.82	1.60	1.90	33.0	50.0	HA72L-1770470LFTR	47.0	40.70	42.70	8.7	8.6
HA72L-12651R0LFTR	1.00	1.70	2.00	32.0	49.0	HA72L-1770560LFTR	56.0	55.00	57.80	7.2	4.2
HA72L-12651R2LFTR	1.20	2.10	2.50	30.0	48.0	HA72L-1770680LFTR	68.0	72.10	75.70	6.1	4.5
HA72L-12651R5LFTR	1.50	2.50	3.00	27.0	45.0	HA72L-1770820LFTR	82.0	87.30	91.70	5.5	4.5
HA72L-12651R8LFTR	1.80	2.80	3.20	24.0	41.0	HA72L-1770101LFTR	100.0	105.0	110.0	5.0	4.0
HA72L-12652R2LFTR	2.20	3.50	4.20	22.0	40.0						

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  $-55^\circ\text{C}$  to  $+155^\circ\text{C}$

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### Packaging

Embossed Tape and Reel	
Standard:	Diameter: All case size = 13" (330mm))
Reel:	Capacity: Case size 0420 = 2,000 units
	Case size 0530 = 2,000 units
	Case size 0624 = 1,000 units
	Case size 0630 = 1,000 units
	Case size 1040 = 800 units
	Case size 1050 = 500 units
	Case size 1250 = 500 units
	Case size 1265 = 400 units
	Case size 1770 = 150 units

### Ordering information

HA72L - XXX XXX LF TR XX

Case Size \_\_\_\_\_ ↑      ↑      ↑      ↑      ↑

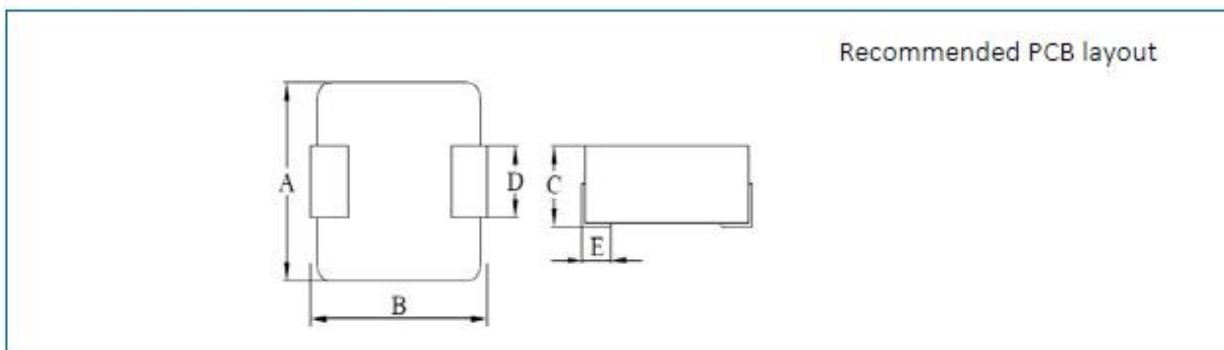
Ind Value \_\_\_\_\_ ↑      ↑      ↑      ↑      ↑

Lead Free (LF) \_\_\_\_\_ ↑      ↑      ↑      ↑      ↑

Tape & Reel Packing \_\_\_\_\_ ↑      ↑      ↑      ↑      ↑

Reel Size (13")

### Outline dimensions (mm)



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CASE SIZE	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
0420 series	$4.05 \pm 0.25$	$4.45 \pm 0.25$	2	$1.5 \pm 0.3$	$0.8 \pm 0.3$
0530 series	$5.2 \pm 0.3$	$5.4 \pm 0.3$	3	$2.2 \pm 0.3$	$1.2 \pm 0.2$
0624 series	$6.6 \pm 0.3$	$7.1 \pm 0.3$	2.4	$3.0 \pm 0.3$	$1.6 \pm 0.5$
0630 series	$6.6 \pm 0.3$	$7.1 \pm 0.3$	3	$3.0 \pm 0.3$	$1.6 \pm 0.5$
1040 series	$10.0 \pm 0.3$	11.5 Max	4	$2.8 \pm 0.5$	$2.0 \pm 0.5$
1050 series	$10.0 \pm 0.3$	11.5 Max	5	$2.8 \pm 0.5$	$2.0 \pm 0.5$
1250 series	$12.8 \pm 0.3$	$13.5 \pm 0.5$	5	$3.5 \pm 0.5$	$2.5 \pm 0.5$
1265 series	$12.8 \pm 0.3$	$13.5 \pm 0.5$	6.5	$3.5 \pm 0.5$	$2.5 \pm 0.5$
1770 series	17.15 Max	$18.0 \pm 0.3$	7	$11.94 \pm 0.3$	$2.7 \pm 0.4$

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