

# Power Inductors


## Model HM72L-0412 series



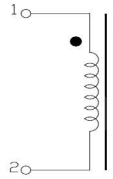
### Features:

- Operating Temperature Range  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$
- Ambient Temperature, Maximum  $+85^{\circ}\text{C}$
- Temperature Rise,  $40^{\circ}\text{C}$
- RoHS Compliant



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

### Schematic



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

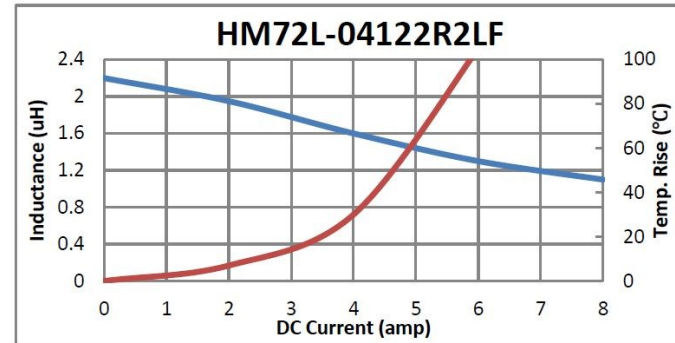
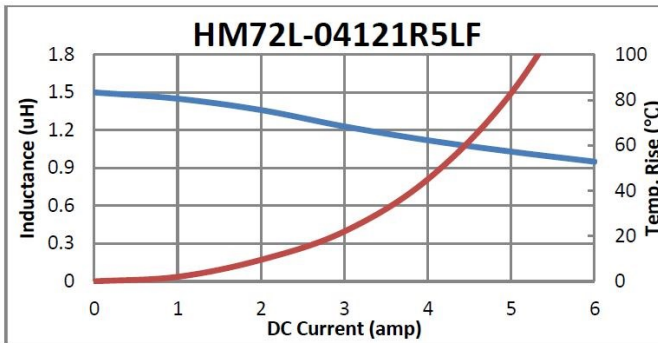
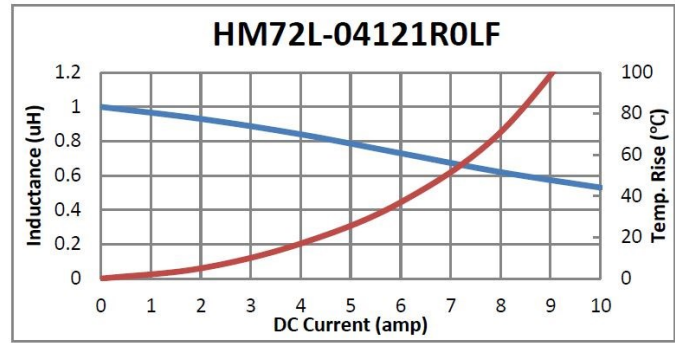
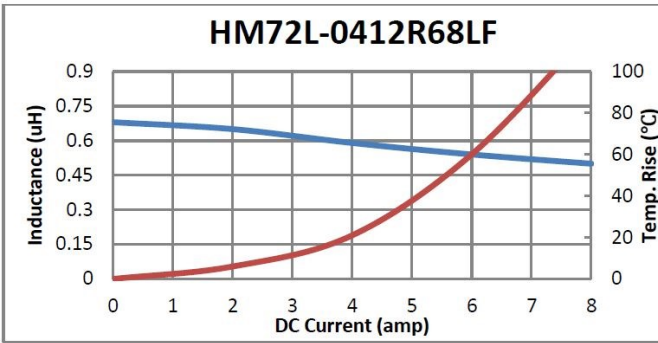
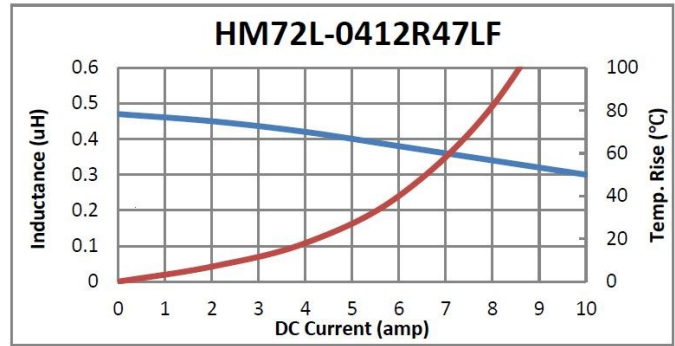
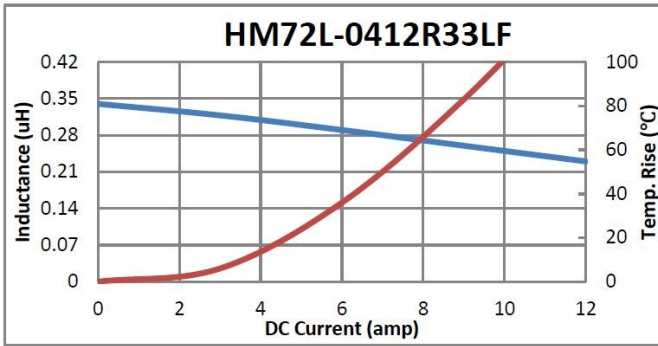
Part Number	Inductance ( $\mu\text{H} \pm 20\%$ @0A)	DCR (m $\Omega$ ) Typ	DCR (m $\Omega$ ) Max	I <sub>rms</sub> (A)	I <sub>sat</sub> (A)	Part Number	Inductance ( $\mu\text{H} \pm 20\%$ @0A)	DCR (m $\Omega$ ) Typ.	DCR (m $\Omega$ ) Max	I <sub>rms</sub> (A)	I <sub>sat</sub> (A)
HM72L-0412R33LFTR	0.33	17.0	19.0	6.5	8.4	HM72L-04121R0LFTR	1.00	43.0	47.0	4.5	5.5
HM72L-0412R47LFTR	0.47	19.0	22.0	6.0	6.8	HM72L-04121R5LFTR	1.50	68.0	75.0	3.25	4.0
HM72L-0412R68LFTR	0.68	32.0	36.0	4.7	6.0	HM72L-04122R2LFTR	2.20	79.4	83.5	2.75	3.5

- 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  $+125^{\circ}\text{C}$

#### General Note

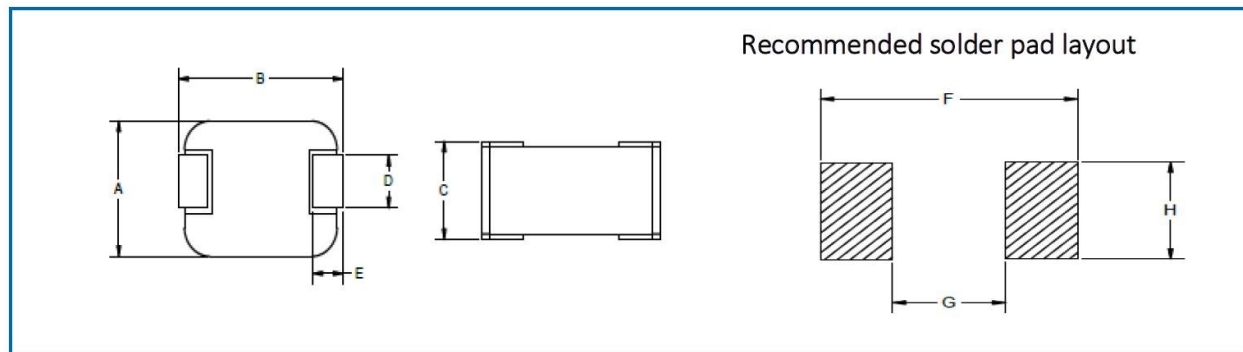
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### Electrical Specifications @ 25



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### Outline dimensions (mm)

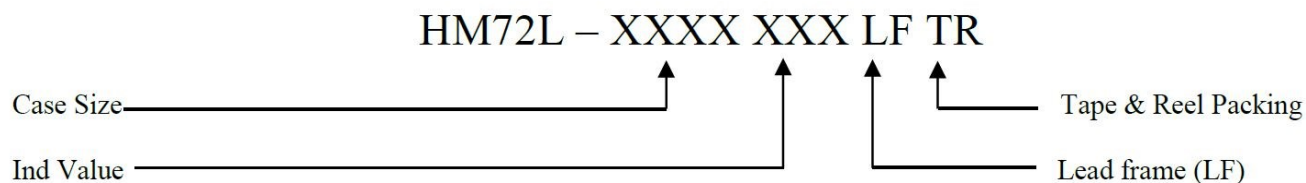


CASE SIZE	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)
0412 series	4.2 ± 0.25	4.4 ± 0.35	1.2	1.5 ± 0.3	0.8 ± 0.3	4.95	2.15	2.3

### Packaging

Standard:	Embossed Tape and Reel		
	Reel:	Diameter: All case size	= 13" (330mm))
		Capacity: Case size 0412	= 3,000 units

### Ordering information



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[HM72L-04121R0LFTR](#)