# Model HM72L-1040 series

#### Features:

- Operating Temperature Range –55°C to +125°C
- Ambient Temperature, Maximum +85°C
- Temperature Rise, 40°C
- RoHS Compliant



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

Schematic



10

Specifications @ 25°C

Part Number	Inductance (µH ±20% @0A	DCR (mΩ) Typ	DCR (mΩ) Max	Irms (A)	Isat (A)	Part Number	Inductance (µH ±20% @0A	DCR (mΩ) Typ.	DCR (mΩ) Max	Irms (A)	Isat (A)
HM72L-1040R19LFTR	0.19	0.50	0.70	44.0	44.0	HM72L-1040R78LFTR	0.78	1.60	1.80	25.0	25.0
HM72L-1040R22LFTR	0.22	0.60	0.80	38.0	42.0	HM72L-1040R82LFTR	0.82	2.20	2.50	21.0	21.0
HM72L-1040R24LFTR	0.24	0.70	0.80	38.0	38.0	HM72L-10401R0LFTR	1.00	2.20	2.50	21.0	21.0
HM72L-1040R36LFTR	0.36	0.85	0.95	35.0	35.0	HM72L-10401R8LFTR	1.80	4.5	5.0	15.0	15.0
M72L-1040R41LFTR	0.41	1.04	1.15	33.0	32.0	HM72L-10402R0LFTR	2.00	5.2	5.8	14.0	14.0
HM72L-1040R47LFTR	0.47	1.20	1.40	32.0	32.0	HM72L-10402R2LFTR	2.2	5.50	6.30	14.0	16.0
HM72L-1040R56LFTR	0.56	1.30	1.50	30.0	30.0	HM72L-10402R5LFTR	2.5	8.20	9.00	12.0	12.0
HM72L-1040R68LFTR	0.68	1.60	1.80	25.0	30.0	HM72L-10403R3LFTR	3.30	8.2	9.0	12.0	11.0

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  $\Delta T = 40^{\circ}C$
- (3) Operating Temperature Range  $-55^{\circ}$ C to  $+125^{\circ}$ C

General Note

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0.3

0.25

0.2

0.15

0.1

0.05

0

0.55 0.5 0.45 0.4 0.35 0.3 0.25 0.2 0.15

0.1

0

0.6

0.54 0.48 0.36 0.3 0.24 0.18 0.12 0.06

0

0 5 10 15 20 25 30

Inductance (uH)

0 5 10 15 20 25

Inductance (uH)

0

10

20

Inductance (uH)

### Model HM72L-1040 series





HM72L-1040R24LF

30

DC Current (amp)

HM72L-1040R41LF

40

50

#### **Electrical Specifications @ 25**

100

80

40 09 Rise (°C)

20 **June** 

100 80

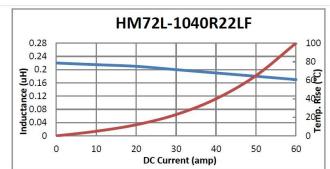
Temp.

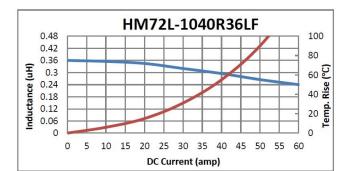
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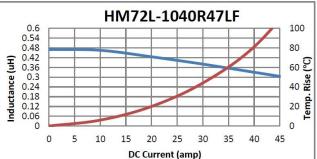
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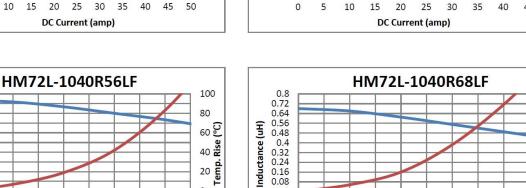
0

60









#### 0 0 35 40 45 0 5 10 15 20 25 30 DC Current (amp)

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DC Current (amp)

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100

80

60 0

40 Bise

20 Lemp.

0

40 45

35

1.2

0.8

0.6

0.4

0.2

0

0

5

10

15

Inductance (uH)

1

Model HM72L-1040 series



100

80

60 0

40 US

20 **Temp.** 

0

40

HM72L-1040R82LF

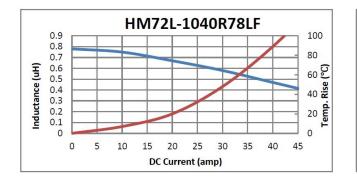
20

DC Current (amp)

25

30

35



HM72L-10401R0LF

#### Electrical Characteristics @ 25°C

100

80

60 5

40 Bise

20 **June** 

0

40

1 0.9 0.8

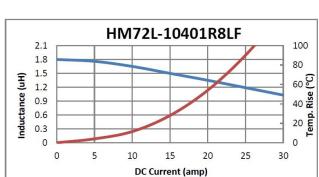
**Inductance (nH)** 0.7 0.6 0.5 0.4 0.2 0.1 0

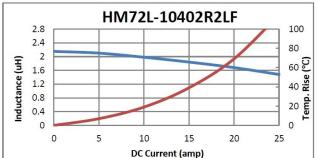
0

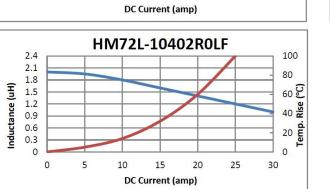
5

10

15





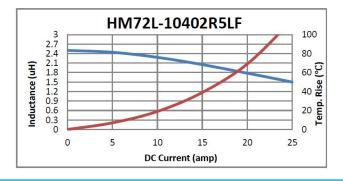


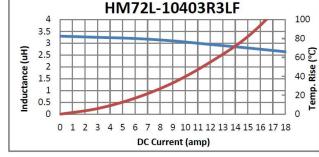
20

25

30

35





#### General Note

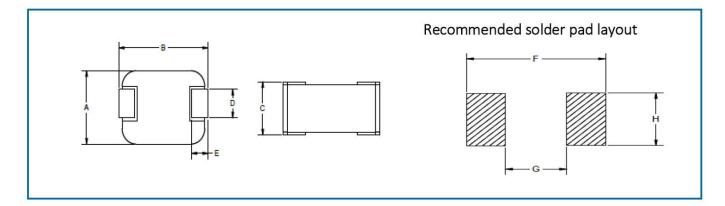
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## Model HM72L-1040 series

### **Outline dimensions (mm)**

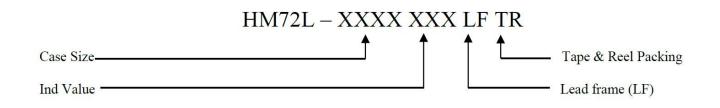


CASE SIZE	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	
1040 series	10.0 ± 0.3	11.5	4	2.8 ± 0.5	2.0 ± 0.5	13	6	4	

### Packaging

	Embossed Tape and Reel						
Standard:	Dia	ameter:	All case size	=	13" (330mm))		
	Reel:		Case size 1040	=	800 units		

### **Ordering information**



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