

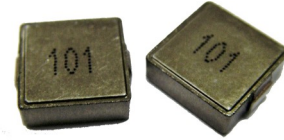
# Power Inductors

## Model HA72L-1040 series

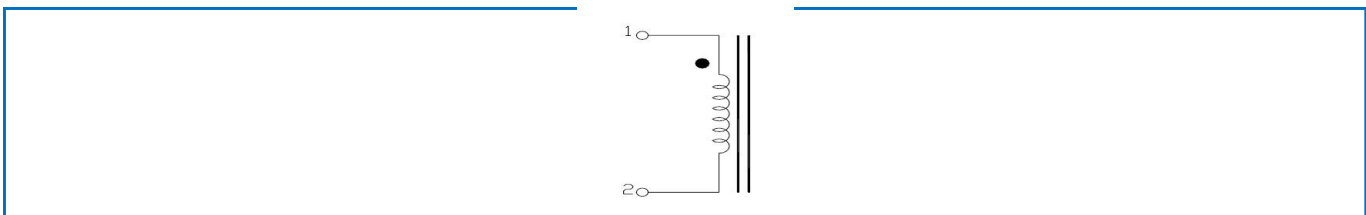


### Features:

- 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



### 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	I <sub>rms</sub> (A)	Isat (A)	Part Number	Inductance ( $\mu\text{H} \pm 20\%$ @0A)	DCR ( $\text{m}\Omega$ ) Typ.	DCR ( $\text{m}\Omega$ ) Max	I <sub>rms</sub> (A)	Isat (A)
HA72L-1040R19LFTR	0.19	0.70	0.80	40.0	46.0	HA72L-10405R6LFTR	5.60	15.5	16.5	9.2	7.4
HA72L-1040R24LFTR	0.24	0.85	0.95	33.0	44.0	HA72L-10406R8LFTR	6.80	17.5	19.3	9.0	7.5
HA72L-1040R36LFTR	0.36	1.05	1.15	32.0	30.0	HA72L-10408R2LFTR	8.20	22.0	24.0	8.3	7.3
HA72L-1040R47LFTR	0.47	1.53	1.68	30.0	30.0	HA72L-1040100LFTR	10.0	27.80	30.50	7.5	7.1
HA72L-1040R56LFTR	0.56	1.6	1.8	32.0	22.0	HA72L-1040150LFTR	15.0	40.90	45.00	6.25	6.0
HA72L-1040R78LFTR	0.78	1.8	1.9	27.0	22.0	HA72L-1040220LFTR	22.0	60.40	66.00	5.0	4.5
HA72L-10401R0LFTR	1.00	2.3	2.5	25.0	20.0	HA72L-1040330LFTR	33.0	87.50	94.50	4.4	4.0
HA72L-10401R2LFTR	1.20	2.3	2.5	25.0	20.0	HA72L-1040470LFTR	47.0	132.0	145.0	4.0	3.0
HA72L-10401R8LFTR	1.80	4.5	5.0	17.0	16.0	HA72L-1040560LFTR	56.0	150.0	170.0	3.8	2.8
HA72L-10402R0LFTR	2.00	5.2	5.8	16.0	14.0	HA72L-1040680LFTR	68.0	175.0	200.0	3.5	2.6
HA72L-10403R3LFTR	3.30	8.2	9.0	12.0	14.0	HA72L-1040820LFTR	82.0	210.0	240.0	3.2	2.4
HA72L-10404R7LFTR	4.70	12.9	14.2	9.5	7.6	HA72L-1040101LFTR	100.0	249.0	270.0	3.0	2.25

- Notes: (1) Isat 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 condition for all case sizes is 100kHz @ 1V

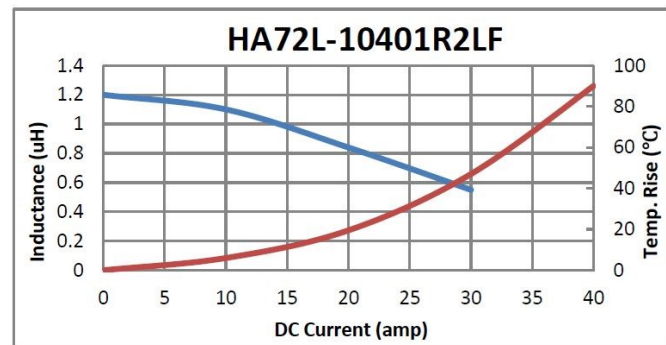
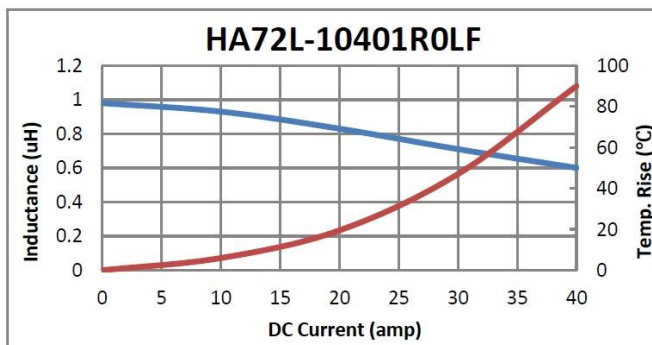
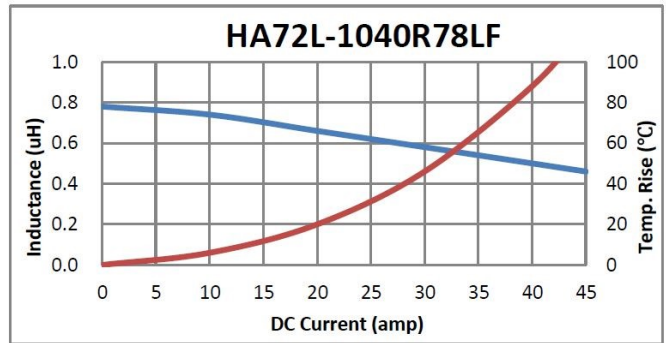
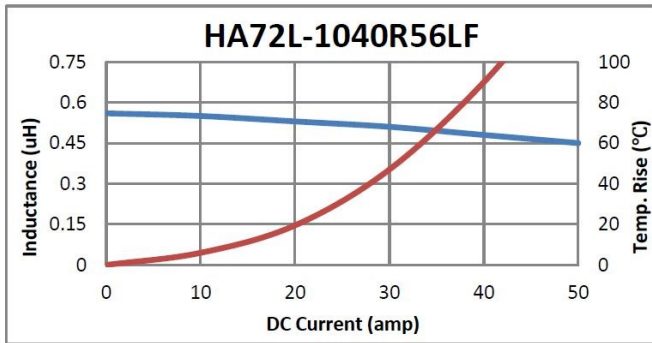
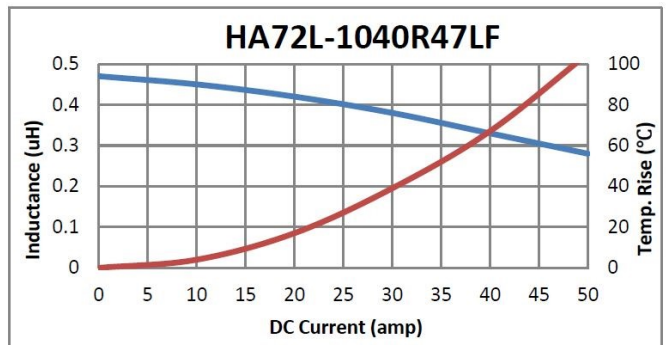
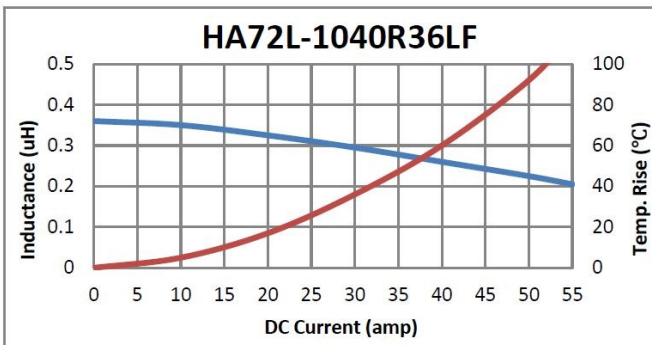
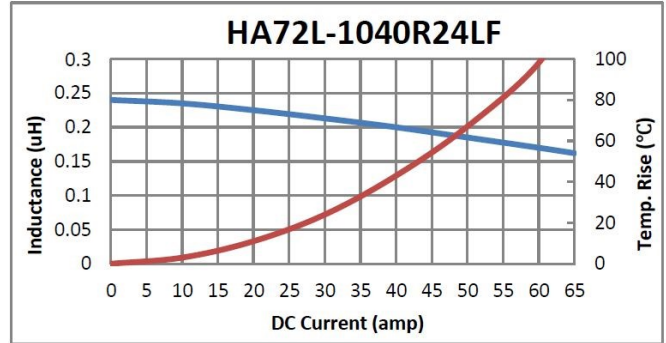
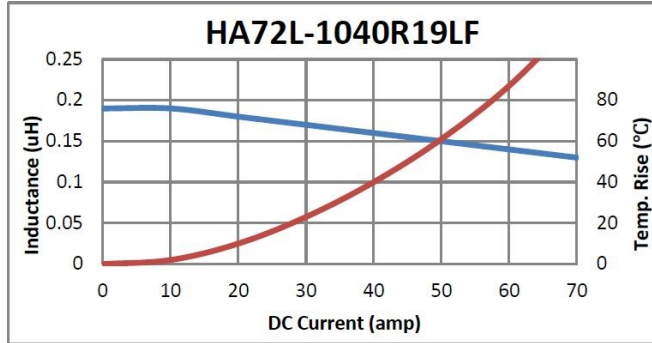
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### Electrical Specifications

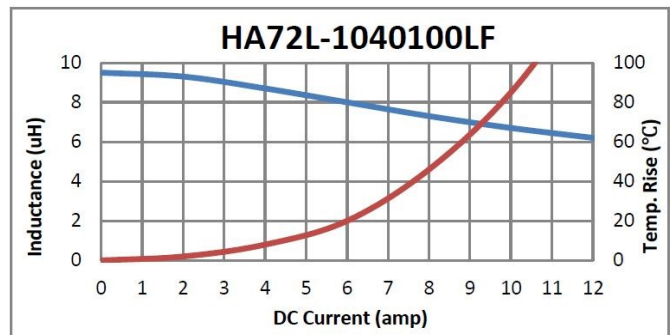
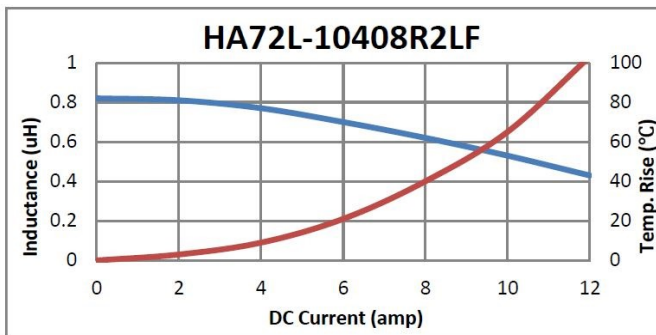
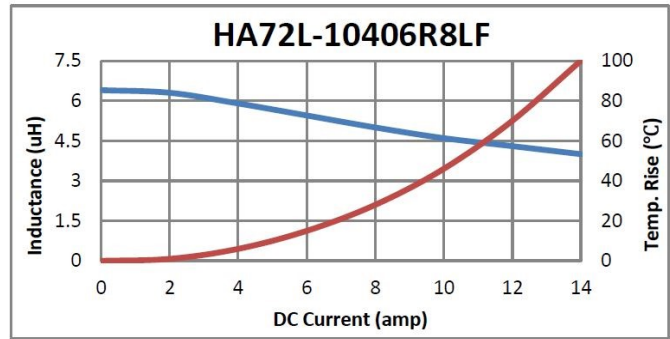
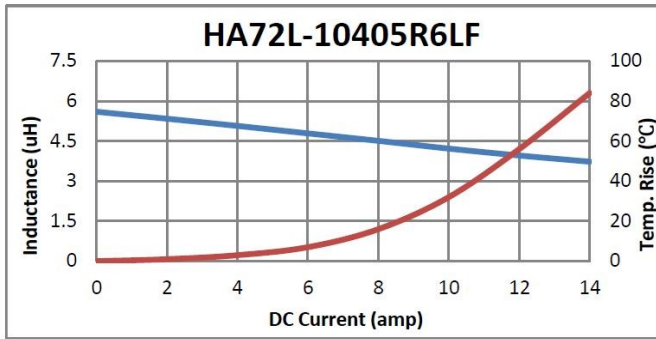
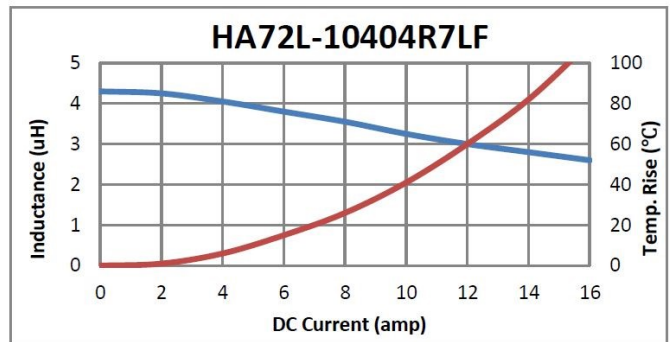
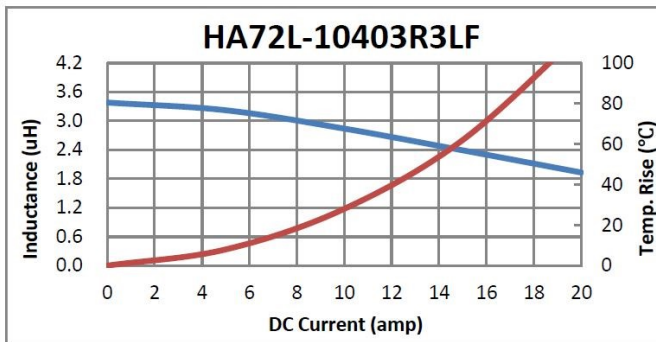
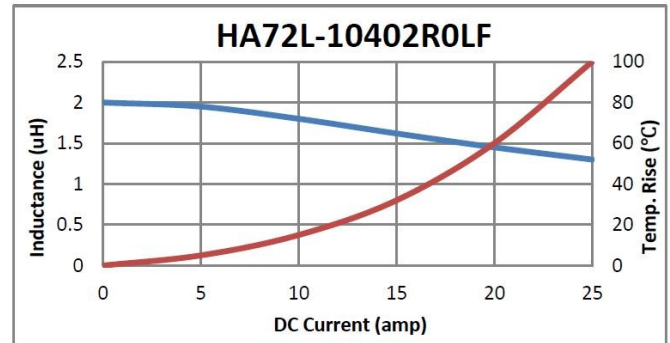
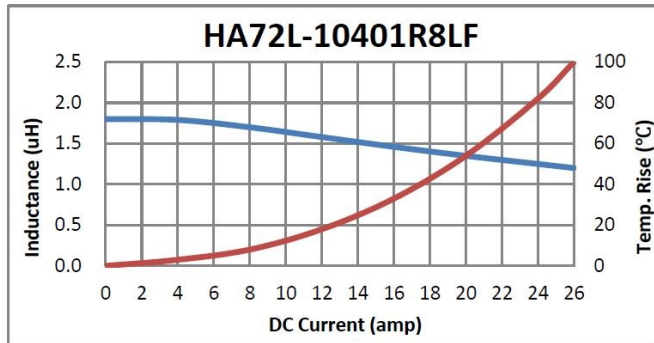


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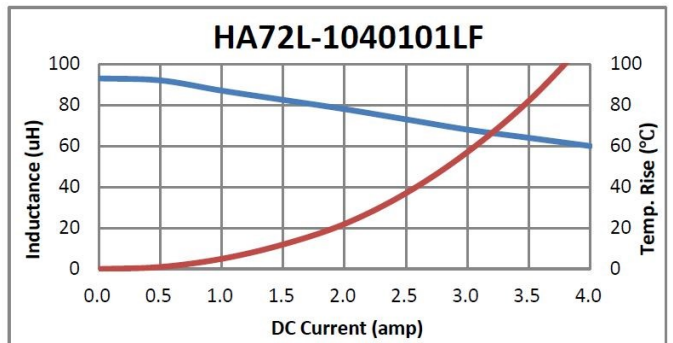
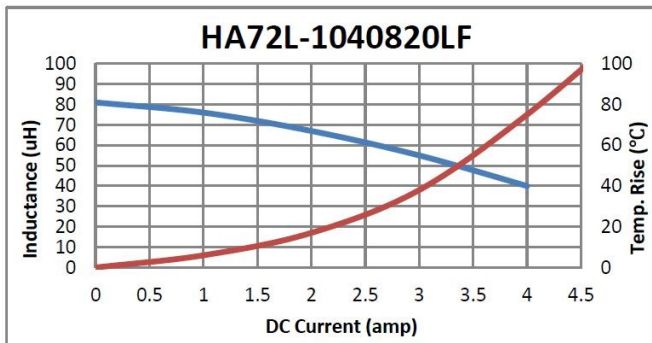
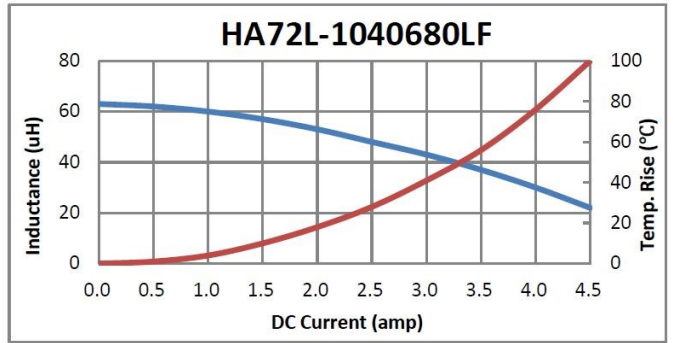
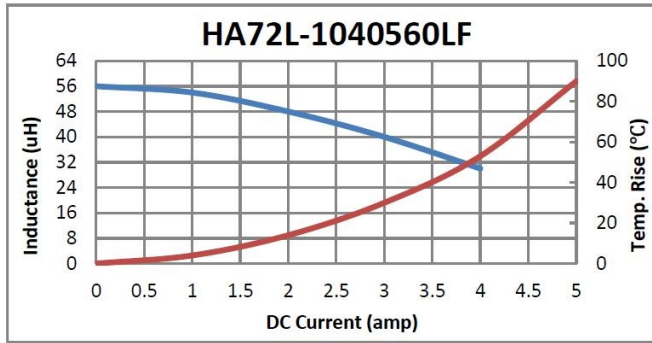
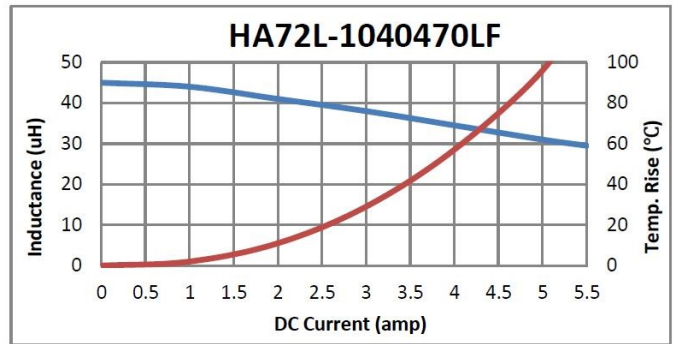
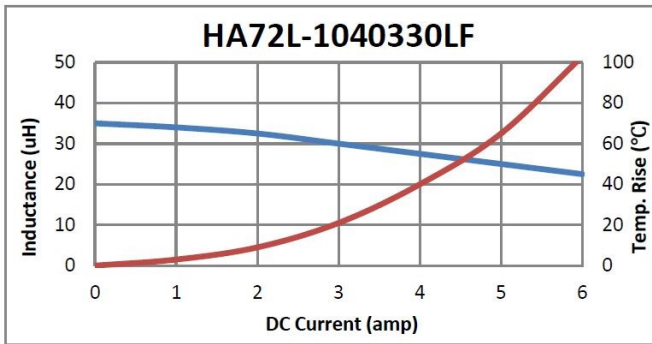
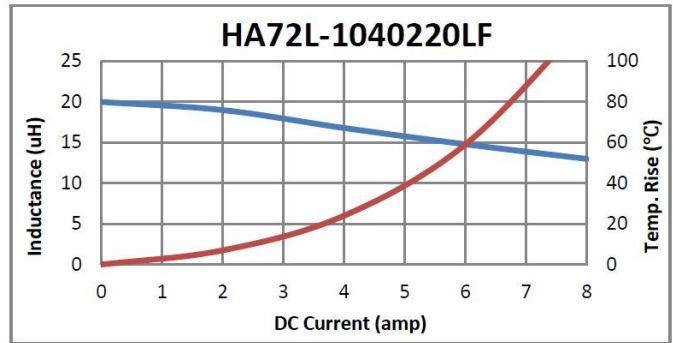
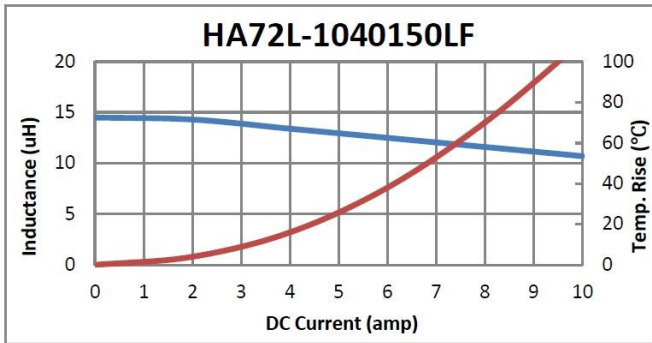


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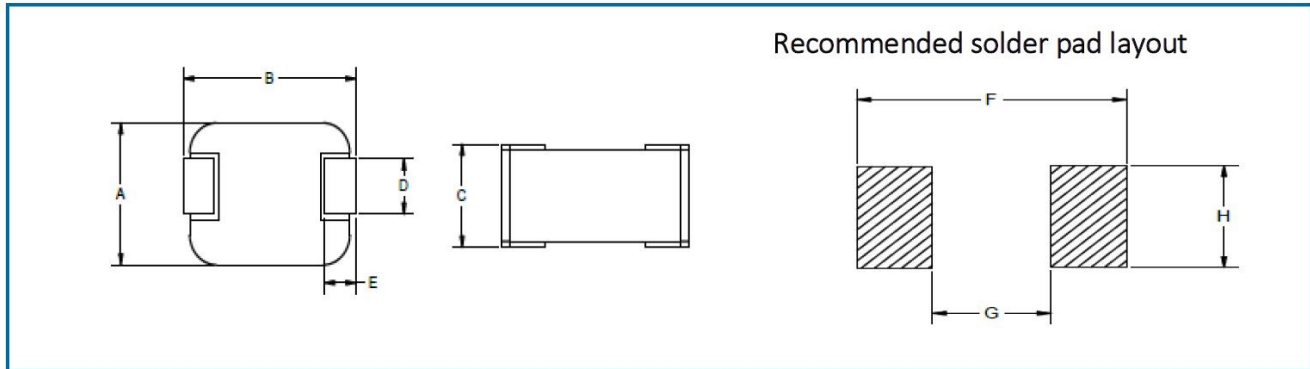
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### Outline Dimensions (mm)



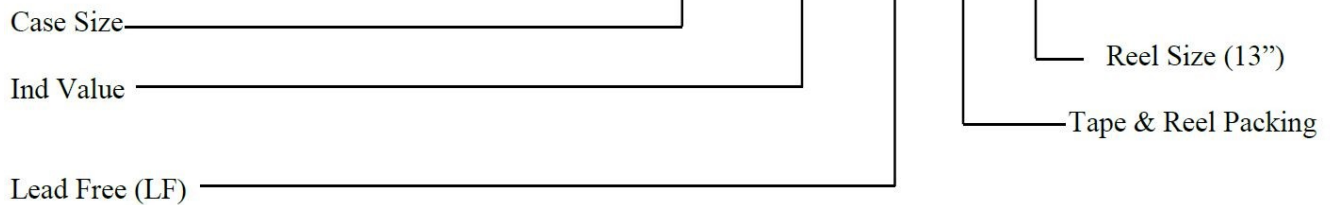
CASE SIZE	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)
1040 series	10.0 ± 0.3	11.5 Max	4	2.8 ± 0.5	2.0 ± 0.5	13	6	4

### Packaging

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

### Ordering Information

HA72L – XXXX XXX LF TR XX



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