

# Miniature Low Profile, Shielded Surface Mount Inductors

## MODEL HA66

### Features

- Operating Temperature Range -40°C to +125°C
- Ambient Temperature, Maximum +85°C
- Temperature Rise, Maximum 40°C
- RoHS Compliant
- AEC-Q200 Certified



 All parts are Pb-free and comply with EU RoHS Directive 2011/65/EU with amendment (EU) 2015/863 (RoHS 3)

## Specifications @ 25°C

Part Number	Inductance ( $\mu\text{H}$ ) $\pm 20\%$	DC Resistance ( $\Omega$ ) Max	Isat (A)	Irms (A)
HA66-5302R5LF	2.5	0.018	2.6	2.60
HA66-5303R0LF	3.0	0.024	2.5	2.40
HA66-5304R2LF	4.2	0.031	2.0	2.20
HA66-5305R3LF	5.3	0.038	1.9	1.90
HA66-5306R2LF	6.2	0.045	1.6	1.80
HA66-5308R2LF	8.2	0.053	1.2	1.60
HA66-530100LF	10	0.065	1.3	1.30
HA66-530120LF	12	0.076	1.0	1.20
HA66-530150LF	15	0.103	1.1	1.10
HA66-530180LF	18	0.110	1.0	1.00
HA66-530220LF	22	0.122	0.9	0.90
HA66-530270LF	27	0.175	0.7	0.85
HA66-530330LF	33	0.189	0.7	0.75
HA66-530390LF	39	0.212	0.6	0.70
HA66-530470LF	47	0.260	0.6	0.62
HA66-530560LF	56	0.305	0.5	0.58
HA66-530680LF	68	0.355	0.5	0.52
HA66-530820LF	82	0.463	0.4	0.46
HA66-530101LF	100	0.520	0.4	0.40

### General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

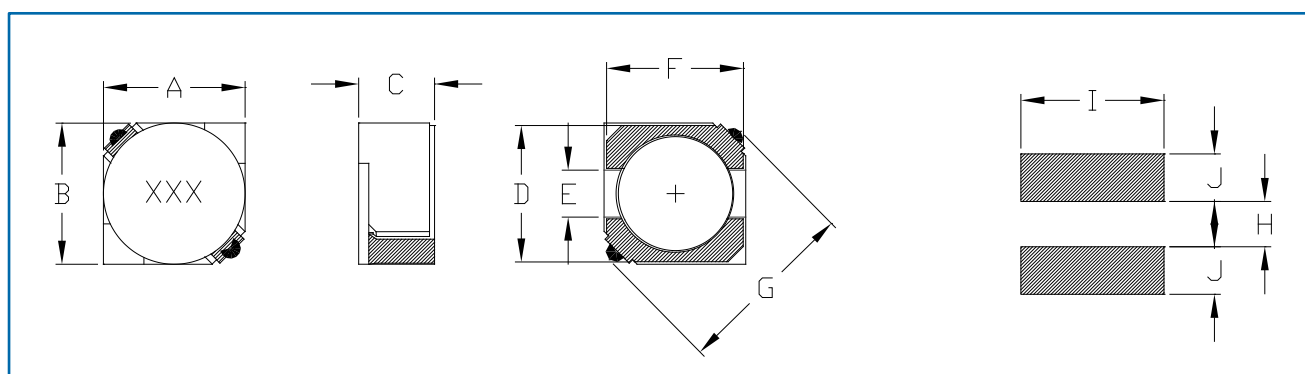
**Specifications @ 25°C (Continued)**

Part Number	Inductance ( $\mu\text{H}$ ) $\pm 20\%$	DC Resistance ( $\Omega$ ) Max	Isat (A)	Irms (A)
HA66-6403R3LF	3.3	0.020	3.5	3.50
HA66-6405R0LF	5.0	0.024	2.9	2.90
HA66-6406R2LF	6.2	0.027	2.6	2.50
HA66-6407R4LF	7.4	0.031	2.4	2.30
HA66-6408R7LF	8.7	0.034	2.2	2.20
HA66-640100LF	10	0.038	2.0	2.00
HA66-640120LF	12	0.053	1.8	1.70
HA66-640150LF	15	0.057	1.6	1.60
HA66-640180LF	18	0.092	1.6	1.50
HA66-640220LF	22	0.096	1.3	1.30
HA66-640270LF	27	0.109	1.2	1.20
HA66-640330LF	33	0.124	1.1	1.10
HA66-640390LF	39	0.138	1.0	1.00
HA66-640470LF	47	0.155	0.9	0.95
HA66-640560LF	56	0.202	0.9	0.85
HA66-640680LF	68	0.234	0.8	0.75
HA66-640820LF	82	0.324	0.7	0.70
HA66-640101LF	100	0.358	0.6	0.65
HA66-640221LF	220	0.820	0.4	0.45

Notes:

- (1) Inductance test condition 10kHz 0.1Vac
- (2) Isat is the saturation current at which inductance rolls off approximately 35% from its initial (zero DC) value
- (3) Irms is the approximate current at which  $\Delta T = 40^\circ\text{C}$

**Outline dimensions (mm)**



CASE SIZE	A	B	C Max	D	E	F	G Max	H	I	J
530	5.7 $\pm$ 0.5	5.7 $\pm$ 0.5	3.0	5.5 $\pm$ 0.3	2.1 $\pm$ 0.15	5.5 $\pm$ 0.3	8.2	2.1	6.3	2.15
640	6.7 $\pm$ 0.5	6.7 $\pm$ 0.5	4.0	6.5 $\pm$ 0.3	2.1 $\pm$ 0.15	6.5 $\pm$ 0.3	9.5	2.1	7.3	2.65

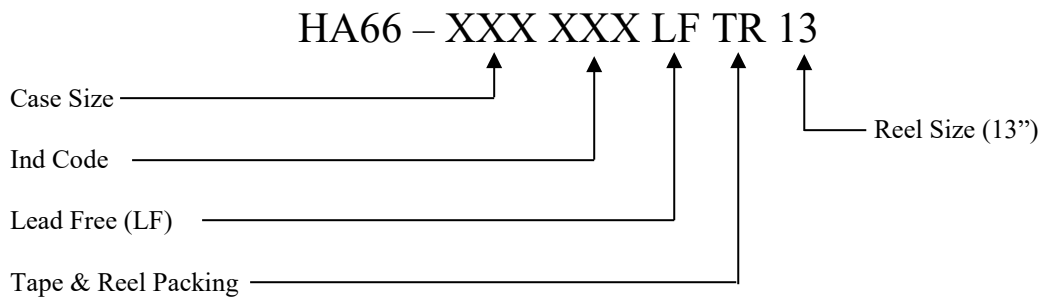
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## Packaging

Standard:	Embossed Tape and Reel	
	Reel:	Diameter: _____ = 13" (330.2mm)
		Capacity: Case size 530 = 2000 units
		Case size 640 = 1000 units

## Ordering information



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