

## Magnetics

# Miniature Low Profile, Shielded Surface Mount Inductors



### MODEL HA66

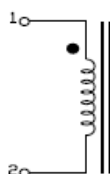
#### Features

- 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 Directive 2011/65/EU

#### Schematic



#### Specifications @ 25°C

| Part Number   | Inductance<br>$\mu\text{H}$<br>Typ.<br>$\mu\text{H} \pm 20\%$ | DC<br>Resistance<br>$\Omega$ Max. | Isat (A) | Irms (A) |
|---------------|---------------------------------------------------------------|-----------------------------------|----------|----------|
| HA66-5302R5LF | 2.5                                                           | 0.018                             | 3.40     | 7.50     |
| HA66-5303R0LF | 3.0                                                           | 0.024                             | 3.20     | 7.25     |
| HA66-5304R2LF | 4.2                                                           | 0.031                             | 2.45     | 6.50     |
| HA66-5305R3LF | 5.3                                                           | 0.038                             | 2.25     | 5.90     |
| HA66-5306R2LF | 6.2                                                           | 0.045                             | 1.95     | 5.45     |
| HA66-5308R2LF | 8.2                                                           | 0.053                             | 1.80     | 4.00     |
| HA66-530100LF | 10                                                            | 0.065                             | 1.60     | 4.50     |
| HA66-530120LF | 12                                                            | 0.076                             | 1.57     | 4.49     |
| HA66-530150LF | 15                                                            | 0.103                             | 1.40     | 3.50     |
| HA66-530180LF | 18                                                            | 0.110                             | 1.25     | 3.45     |
| HA66-530220LF | 22                                                            | 0.122                             | 1.12     | 3.18     |
| HA66-530270LF | 27                                                            | 0.175                             | 1.00     | 2.38     |
| HA66-530330LF | 33                                                            | 0.189                             | 0.90     | 2.50     |
| HA66-530390LF | 39                                                            | 0.212                             | 0.85     | 2.19     |

#### General Note

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BI Technologies

## Inductor

### Miniature Low Profile,

### Shielded Surface

### Mount Inductors

### MODEL HA66



### Specifications @ 25°C (Continued)

| Part Number   | Inductance<br>$\mu\text{H}$<br>Typ.<br>$\mu\text{H} \pm 20\%$ | DC<br>Resistance<br>$\Omega$ Max. | Isat (A) | Irms (A) |
|---------------|---------------------------------------------------------------|-----------------------------------|----------|----------|
| HA66-530470LF | 47                                                            | 0.260                             | 0.80     | 2.00     |
| HA66-530560LF | 56                                                            | 0.305                             | 0.72     | 1.71     |
| HA66-530680LF | 68                                                            | 0.355                             | 0.65     | 1.64     |
| HA66-530820LF | 82                                                            | 0.463                             | 0.59     | 1.52     |
| HA66-530101LF | 100                                                           | 0.520                             | 0.52     | 1.40     |

|               |     |       |      |       |
|---------------|-----|-------|------|-------|
| HA66-6403R3LF | 3.3 | 0.020 | 4.40 | 11.20 |
| HA66-6405R0LF | 5.0 | 0.024 | 3.75 | 8.35  |
| HA66-6406R2LF | 6.2 | 0.027 | 3.20 | 9.00  |
| HA66-6407R4LF | 7.4 | 0.031 | 3.15 | 7.30  |
| HA66-6408R7LF | 8.7 | 0.034 | 2.90 | 7.20  |
| HA66-640100LF | 10  | 0.038 | 2.60 | 5.45  |
| HA66-640120LF | 12  | 0.053 | 2.40 | 5.70  |
| HA66-640150LF | 15  | 0.057 | 2.20 | 5.10  |
| HA66-640180LF | 18  | 0.092 | 2.00 | 5.20  |
| HA66-640220LF | 22  | 0.096 | 1.90 | 4.35  |
| HA66-640270LF | 27  | 0.109 | 1.58 | 4.16  |
| HA66-640330LF | 33  | 0.124 | 1.48 | 3.80  |
| HA66-640390LF | 39  | 0.138 | 1.30 | 3.40  |
| HA66-640470LF | 47  | 0.155 | 1.20 | 3.30  |
| HA66-640560LF | 56  | 0.202 | 1.12 | 2.60  |
| HA66-640680LF | 68  | 0.234 | 1.00 | 2.38  |
| HA66-640820LF | 82  | 0.324 | 0.90 | 2.36  |
| HA66-640101LF | 100 | 0.358 | 0.80 | 2.30  |
| HA66-640221LF | 220 | 0.820 | 0.55 | 1.22  |

Notes: (1) Isat is the saturation current which inductance rolls off approximately 35% from its initial (zero DC)  
(2) Ims is the approximate current at which  $\Delta T=40^{\circ}\text{C}$

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Inductor

Miniature Low Profile,

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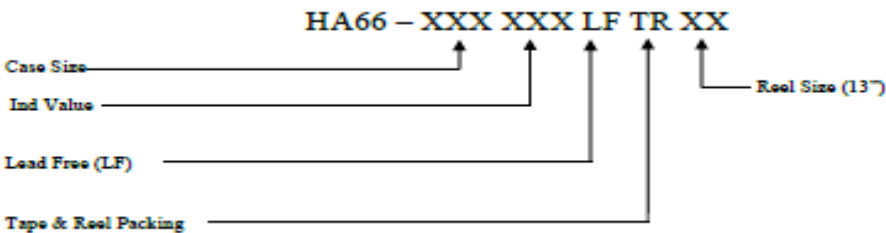
MODEL HA66



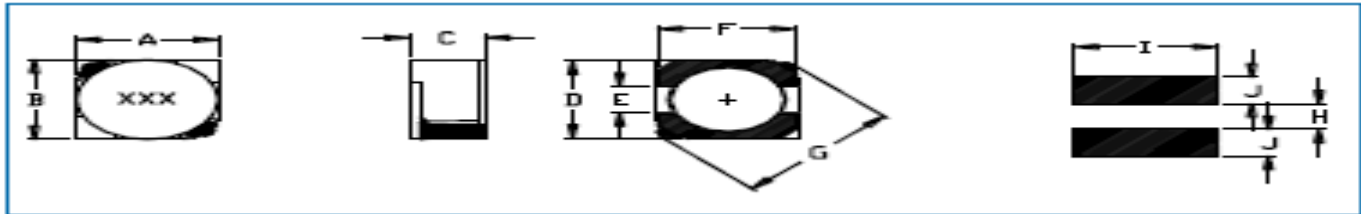
Packaging

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

Ordering information



Outline dimensions (mm)



| Case Size | A       | B       | C Max | D       | E        | F       | G Max | H   | I   | J    |
|-----------|---------|---------|-------|---------|----------|---------|-------|-----|-----|------|
| 530       | 5.7±0.5 | 5.7±0.5 | 3.0   | 5.5±0.3 | 2.0±0.15 | 5.5±0.3 | 8.2   | 2.0 | 6.3 | 2.15 |
| 640       | 6.7±0.5 | 6.7±0.5 | 4.0   | 6.5±0.3 | 2.0±0.15 | 6.5±0.3 | 9.5   | 2.0 | 7.3 | 2.65 |

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| <a href="#"><u>HA66-6405R0LFTR13</u></a> | <a href="#"><u>HA66-640180LFTR13</u></a> | <a href="#"><u>HA66-640330LFTR13</u></a> | <a href="#"><u>HA66-5303R0LFTR13</u></a> | <a href="#"><u>HA66-530330LFTR13</u></a> |
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| <a href="#"><u>HA66-530150LFTR13</u></a> | <a href="#"><u>HA66-6407R4LFTR13</u></a> | <a href="#"><u>HA66-640470LFTR13</u></a> | <a href="#"><u>HA66-5305R3LFTR13</u></a> | <a href="#"><u>HA66-640560LFTR13</u></a> |
| <a href="#"><u>HA66-530390LFTR13</u></a> | <a href="#"><u>HA66-530100LFTR13</u></a> | <a href="#"><u>HA66-6403R3LFTR13</u></a> | <a href="#"><u>HA66-640220LFTR13</u></a> | <a href="#"><u>HA66-530270LFTR13</u></a> |
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