

# Shielded Surface Mount Power Inductors

## Model HM66A

### Features and Benefits

- Operating Temperature Range -40°C to +85°C
- Operating Frequency Up to 3MHz
- RoHS Compliant



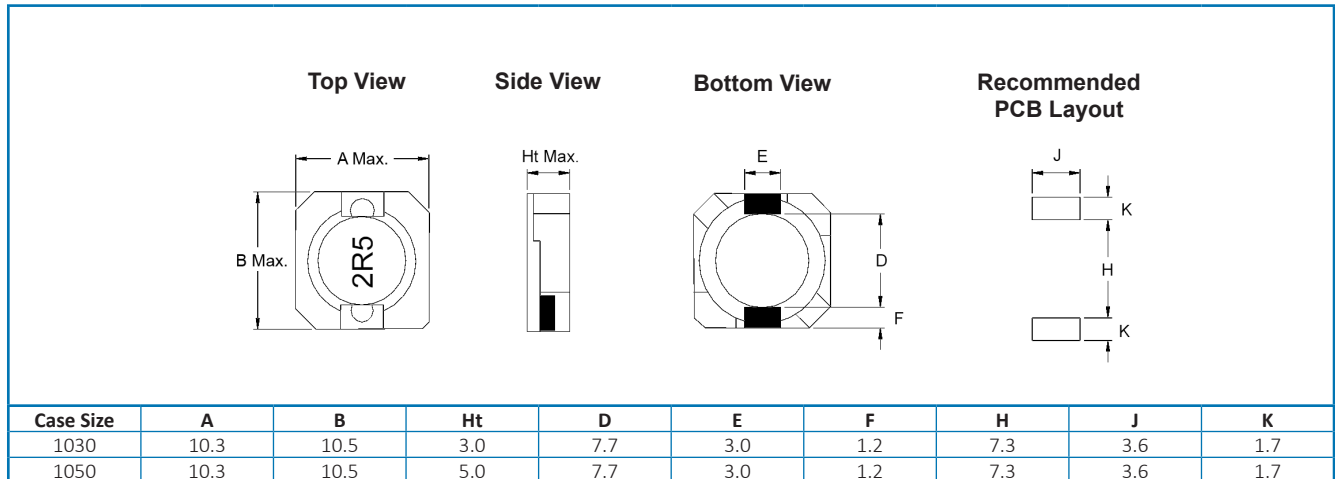
## Specifications @ 25°C

| Case Size 1030/1050   |                                   |                   |                                        |                  |                                   |                   |                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------|----------------------------------------|------------------|-----------------------------------|-------------------|-------------------------|
| Part Number                                                                                                                                                                             | Inductance <sup>(1)</sup><br>(μH) | DCR<br>Max<br>(Ω) | Rated <sup>(2)</sup><br>Current<br>(A) | Part Number      | Inductance <sup>(1)</sup><br>(μH) | DCR<br>Max<br>(Ω) | Rated<br>Current<br>(A) |
| HM66A-1030100NLF                                                                                                                                                                        | 10                                | 58.1              | 2.70                                   | HM66A-1050270NLF | 27                                | 65.4              | 2.24                    |
| HM66A-1030120NLF                                                                                                                                                                        | 12                                | 72.1              | 2.25                                   | HM66A-1050330NLF | 33                                | 81.4              | 1.88                    |
| HM66A-1030150NLF                                                                                                                                                                        | 15                                | 86.5              | 2.22                                   | HM66A-1050390NLF | 39                                | 103.1             | 1.70                    |
| HM66A-1030180NLF                                                                                                                                                                        | 18                                | 116.1             | 1.90                                   | HM66A-1050470NLF | 47                                | 122.1             | 1.56                    |
| HM66A-1030220NLF                                                                                                                                                                        | 22                                | 145.4             | 1.78                                   | HM66A-1050560NLF | 56                                | 144.8             | 1.39                    |
| HM66A-1030270NLF                                                                                                                                                                        | 27                                | 175.9             | 1.63                                   | HM66A-1050680NLF | 68                                | 193.0             | 1.36                    |
| HM66A-1030330NLF                                                                                                                                                                        | 33                                | 213.4             | 1.46                                   | HM66A-1050820NLF | 82                                | 219.4             | 1.20                    |
| HM66A-1030390NLF                                                                                                                                                                        | 39                                | 268.9             | 1.32                                   | HM66A-1050101NLF | 100                               | 247.0             | 1.09                    |
| HM66A-1030470NLF                                                                                                                                                                        | 47                                | 298.6             | 1.18                                   | HM66A-1050121NLF | 120                               | 298.4             | 1.00                    |
| HM66A-1030560NLF                                                                                                                                                                        | 56                                | 335.8             | 1.10                                   | HM66A-1050151NLF | 150                               | 355.1             | 0.91                    |
| HM66A-1030680NLF                                                                                                                                                                        | 68                                | 451.3             | 1.04                                   | HM66A-1050181NLF | 180                               | 393.4             | 0.84                    |
| HM66A-1030820NLF                                                                                                                                                                        | 82                                | 513.8             | 0.94                                   | HM66A-1050221NLF | 220                               | 483.8             | 0.75                    |
| HM66A-1030101NLF                                                                                                                                                                        | 100                               | 700.0             | 0.84                                   | HM66A-1050271NLF | 270                               | 632.5             | 0.68                    |
| HM66A-1030121NLF                                                                                                                                                                        | 120                               | 765.0             | 0.76                                   | HM66A-1050331NLF | 330                               | 780.0             | 0.60                    |
| HM66A-1030151NLF                                                                                                                                                                        | 150                               | 876.3             | 0.70                                   | HM66A-1050391NLF | 390                               | 957.5             | 0.57                    |
| HM66A-10501R5NLF                                                                                                                                                                        | 1.5                               | 5.8               | 8.30                                   | HM66A-1050471NLF | 470                               | 1220.4            | 0.50                    |
| HM66A-1050100NLF                                                                                                                                                                        | 10                                | 25.8              | 3.45                                   | HM66A-1050561NLF | 560                               | 1352.4            | 0.47                    |
| HM66A-1050120NLF                                                                                                                                                                        | 12                                | 32.0              | 3.40                                   | HM66A-1050681NLF | 680                               | 1519.2            | 0.43                    |
| HM66A-1050150NLF                                                                                                                                                                        | 15                                | 40.0              | 2.83                                   | HM66A-1050821NLF | 820                               | 1694.4            | 0.39                    |
| HM66A-1050180NLF                                                                                                                                                                        | 18                                | 46.0              | 2.62                                   | HM66A-1050102NLF | 1000                              | 1946.4            | 0.35                    |
| HM66A-1050220NLF                                                                                                                                                                        | 22                                | 58.5              | 2.44                                   |                  |                                   |                   |                         |

### 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.

### Outline Dimensions (mm)



Notes: (1) Inductance is measured at 100 kHz, 0.1 Vac without DC current.

(2) The rated current is the approximate DC current at which the inductance will be decreased by 25% from its initial (zero DC) value.

### Packaging

|             |       |           |                             |
|-------------|-------|-----------|-----------------------------|
| Tape & Reel |       |           |                             |
| Standard    | Reel: | Diameter: | = 13" (330.2mm)             |
|             |       | Capacity: | Case size 1050 = 500 Units  |
|             |       |           | Case size 1030 = 1000 Units |

### Ordering Information

|                                                                                                                                              |       |   |      |     |   |    |    |                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------|-------|---|------|-----|---|----|----|-----------------------------------------|
| Model Series                                                                                                                                 | HM66A | - | 1050 | 1R5 | N | LF | 13 | Tape & 13" Reel Packing                 |
| Case Size :                                                                                                                                  |       |   |      |     |   |    |    | Lead-Free                               |
| Inductance Code:                                                                                                                             |       |   |      |     |   |    |    | Inductance Tolerance:<br>N = $\pm 30\%$ |
| First 2 digits are significant. Last digit denotes the number of trailing zeros. For values below 10 $\mu$ H, "R" denotes the decimal point. |       |   |      |     |   |    |    |                                         |

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