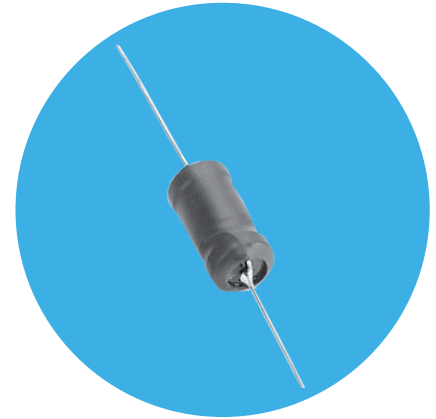


## Axially Leaded Miniature Power Inductors

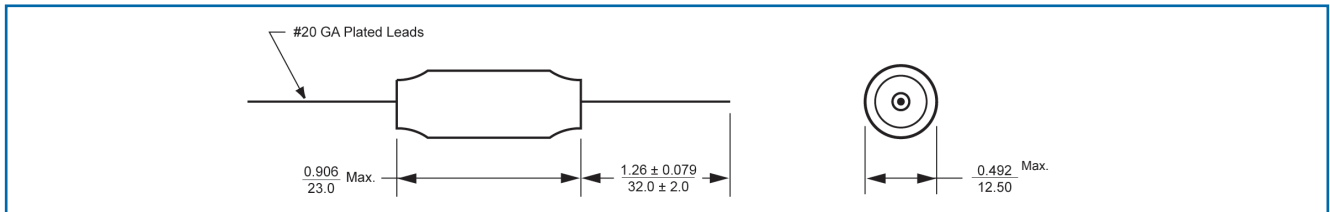
### Model HM51

#### Features and Benefits

- Inductance Range 3.9μH to 10,000μH
- Standard Tolerance ±10%
- Operating Temperature Range -55°C to +105°C
- RoHS Compliant



### Outline Dimensions (Inch / mm)



### Specification @ 25°C

| Part Number | Inductance Nominal <sup>(1)</sup><br>μH ±10% | DC Resistance<br>Ω Max. | Rated IDC <sup>(2)</sup><br>Amps | INCR IDC <sup>(3)</sup><br>Amps | Part Number | Inductance Nominal <sup>(1)</sup><br>μH ±10% | DC Resistance<br>Ω Max. | Rated IDC <sup>(2)</sup><br>Amps | INCR IDC <sup>(3)</sup><br>Amps |
|-------------|--|-------------------------|----------------------------------|---------------------------------|-------------|--|-------------------------|----------------------------------|---------------------------------|
| HM51-3R9KLF | 3.9  | 0.007                   | 8.40                             | 15.5                            | HM51-221KLF | 220  | 0.162                   | 1.76                             | 1.89                            |
| HM51-4R7KLF | 4.7  | 0.008                   | 7.90                             | 13.9                            | HM51-271KLF | 270  | 0.208                   | 1.55                             | 1.63                            |
| HM51-5R6KLF | 5.6  | 0.011                   | 6.70                             | 12.6                            | HM51-331KLF | 330  | 0.212                   | 1.53                             | 1.51                            |
| HM51-6R8KLF | 6.8  | 0.011                   | 6.70                             | 11.6                            | HM51-391KLF | 390  | 0.281                   | 1.33                             | 1.39                            |
| HM51-8R2KLF | 8.2  | 0.013                   | 6.20                             | 9.89                            | HM51-471KLF | 470  | 0.38                    | 1.15                             | 1.24                            |
| HM51-100KLF | 10   | 0.017                   | 5.40                             | 8.70                            | HM51-561KLF | 560  | 0.42                    | 1.10                             | 1.17                            |
| HM51-120KLF | 12   | 0.019                   | 5.10                             | 8.21                            | HM51-681KLF | 680  | 0.548                   | 0.96                             | 1.05                            |
| HM51-150KLF | 15   | 0.022                   | 4.70                             | 7.34                            | HM51-821KLF | 820  | 0.655                   | 0.87                             | 0.97                            |
| HM51-180KLF | 18   | 0.023                   | 4.70                             | 6.64                            | HM51-102KLF | 1,000  | 0.844                   | 0.77                             | 0.87                            |
| HM51-220KLF | 22   | 0.026                   | 4.40                             | 6.07                            | HM51-122KLF | 1,200  | 1.04                    | 0.70                             | 0.79                            |
| HM51-270KLF | 27   | 0.027                   | 4.30                             | 5.36                            | HM51-152KLF | 1,500  | 1.18                    | 0.65                             | 0.7                             |
| HM51-330KLF | 33   | 0.032                   | 4.00                             | 4.82                            | HM51-182KLF | 1,800  | 1.56                    | 0.57                             | 0.64                            |
| HM51-390KLF | 39   | 0.033                   | 3.90                             | 4.36                            | HM51-222KLF | 2,200  | 2.00                    | 0.50                             | 0.58                            |
| HM51-470KLF | 47   | 0.035                   | 3.80                             | 3.98                            | HM51-272KLF | 2,700  | 2.06                    | 0.50                             | 0.53                            |
| HM51-560KLF | 56   | 0.037                   | 3.70                             | 3.66                            | HM51-332KLF | 3,300  | 2.63                    | 0.44                             | 0.47                            |
| HM51-680KLF | 68   | 0.047                   | 3.30                             | 3.31                            | HM51-392KLF | 3,900  | 2.75                    | 0.43                             | 0.43                            |
| HM51-820KLF | 82   | 0.06                    | 2.90                             | 3.10                            | HM51-472KLF | 4,700  | 3.19                    | 0.40                             | 0.39                            |
| HM51-101KLF | 100  | 0.09                    | 2.30                             | 2.79                            | HM51-562KLF | 5,600  | 3.92                    | 0.36                             | 0.359                           |
| HM51-121KLF | 120  | 0.113                   | 2.10                             | 2.54                            | HM51-682KLF | 6,800  | 5.69                    | 0.30                             | 0.322                           |
| HM51-151KLF | 150  | 0.129                   | 2.00                             | 2.22                            | HM51-822KLF | 8,200  | 6.32                    | 0.28                             | 0.293                           |
| HM51-181KLF | 180  | 0.15                    | 1.80                             | 1.98                            | HM51-103KLF | 10,000                                       | 7.30                    | 0.26                             | 0.266                           |

Notes:(1) Inductance is measured at 1kHz without DC current.

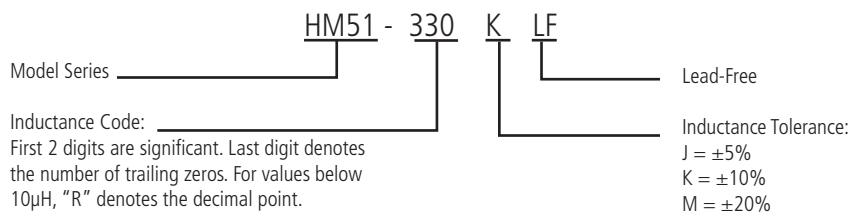
(2) The rated DC current is based on an approximate 20°C temperature rise.

(3) The incremental current (INCR I) is the approximate current at which the inductance will be decreased by 5% from its initial (zero DC) value due to saturation.

### Packaging

|                     |
|---------------------|
| Boxes               |
| Standard            |
| Capacity = 800Units |

### Ordering Information



#### 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.

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