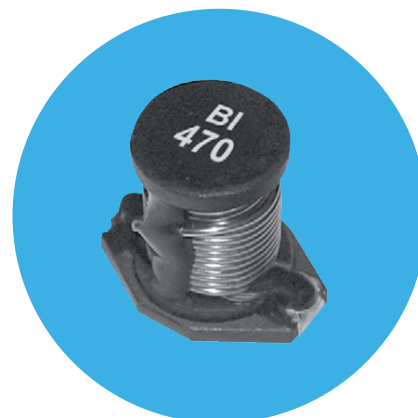


# High Performance Low Cost Surface Mount Inductors

## Model HM71

### Features and Benefits

- Operating Temperature Range -40°C to +125°C
- Temperature Rise at Irms, Typical 40°C
- Operating Frequency Up to 1MHz
- RoHS Compliant



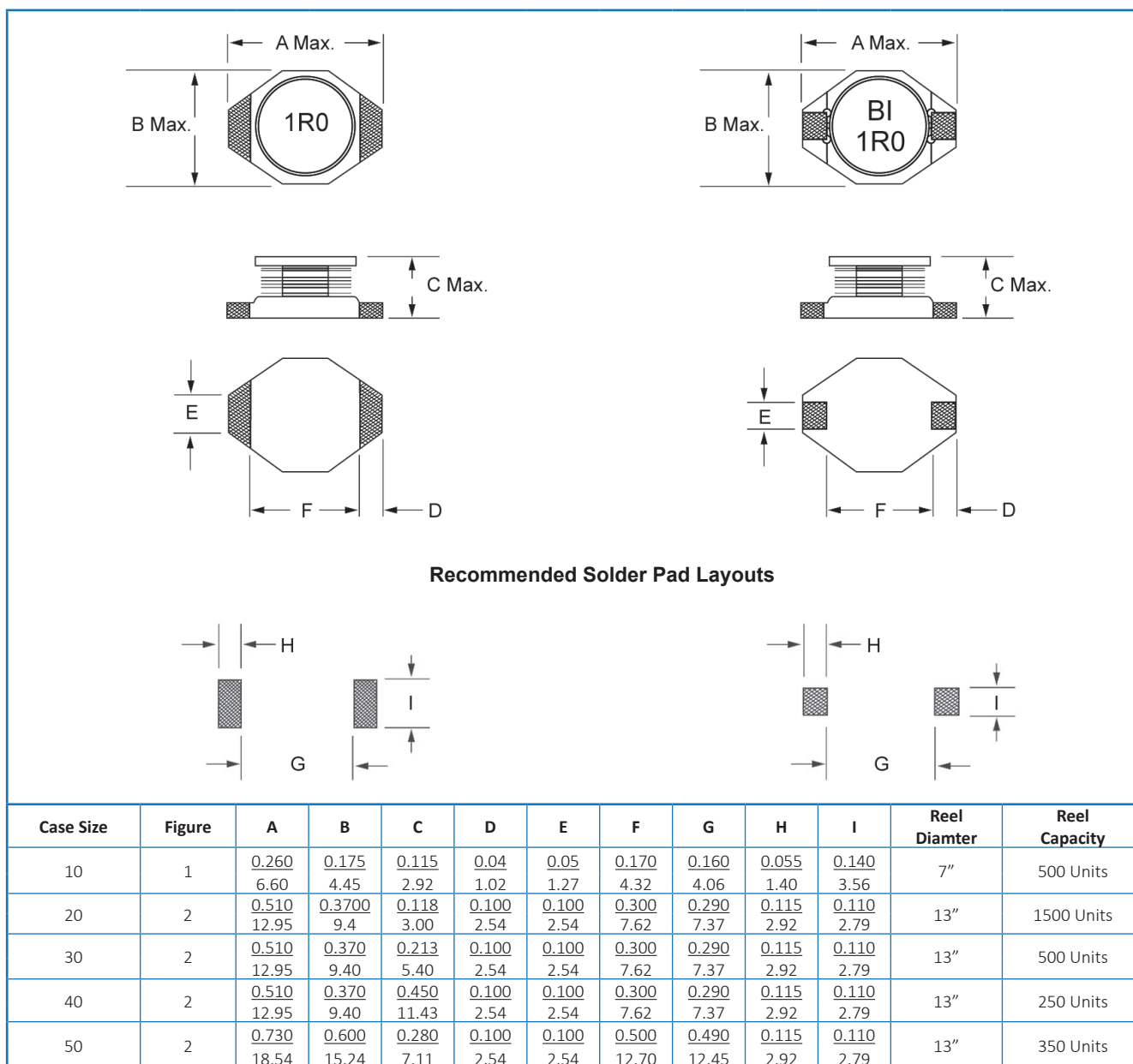
## Specifications

| Part Number  | Inductance <sup>(1)</sup><br>μH ± 20% | DCR <sup>(2)</sup><br>Ω Max. | I <sub>sat</sub> <sup>(3)</sup><br>Amps | I <sub>rms</sub> <sup>(4)</sup><br>Amps rms | Part Number  | Inductance <sup>(1)</sup><br>μH ± 20% | DCR <sup>(2)</sup><br>Ω Max. | I <sub>sat</sub> <sup>(3)</sup><br>Amps | I <sub>rms</sub> <sup>(4)</sup><br>Amps rms |
|--------------|---------------------------------------|------------------------------|-----------------------------------------|---------------------------------------------|--------------|---------------------------------------|------------------------------|-----------------------------------------|---------------------------------------------|
| HM71-101ROLF | 1.0                                   | 0.05                         | 2.9                                     | 2.9                                         | HM71-30330LF | 33                                    | 0.10                         | 2.0                                     | 2.1                                         |
| HM71-101R5LF | 1.5                                   | 0.05                         | 2.6                                     | 2.8                                         | HM71-30470LF | 47                                    | 0.14                         | 1.6                                     | 1.8                                         |
| HM71-102R2LF | 2.2                                   | 0.07                         | 2.3                                     | 2.4                                         | HM71-30680LF | 68                                    | 0.20                         | 1.4                                     | 1.5                                         |
| HM71-103R3LF | 3.3                                   | 0.08                         | 2.0                                     | 2.0                                         | HM71-30101LF | 100                                   | 0.28                         | 1.2                                     | 1.3                                         |
| HM71-104R7LF | 4.7                                   | 0.09                         | 1.5                                     | 1.5                                         | HM71-30151LF | 150                                   | 0.40                         | 1.0                                     | 1.0                                         |
| HM71-106R8LF | 6.8                                   | 0.13                         | 1.2                                     | 1.4                                         | HM71-30221LF | 220                                   | 0.61                         | 0.8                                     | 0.8                                         |
| HM71-10100LF | 10                                    | 0.16                         | 1.1                                     | 1.1                                         | HM71-30331LF | 330                                   | 1.02                         | 0.6                                     | 0.6                                         |
| HM71-10150LF | 15                                    | 0.23                         | 0.9                                     | 1.2                                         | HM71-30471LF | 470                                   | 1.27                         | 0.5                                     | 0.5                                         |
| HM71-10220LF | 22                                    | 0.37                         | 0.7                                     | 0.8                                         | HM71-30681LF | 680                                   | 2.02                         | 0.4                                     | 0.4                                         |
| HM71-10330LF | 33                                    | 0.51                         | 0.58                                    | 0.6                                         | HM71-30102LF | 1000                                  | 3.00                         | 0.3                                     | 0.3                                         |
| HM71-10470LF | 47                                    | 0.64                         | 0.5                                     | 0.5                                         | HM71-40100LF | 10                                    | 0.040                        | 8.0                                     | 3.5                                         |
| HM71-10680LF | 68                                    | 0.86                         | 0.4                                     | 0.4                                         | HM71-40150LF | 15                                    | 0.050                        | 7.0                                     | 3.0                                         |
| HM71-10101LF | 100                                   | 1.27                         | 0.31                                    | 0.3                                         | HM71-40220LF | 22                                    | 0.066                        | 5.5                                     | 2.5                                         |
| HM71-10151LF | 150                                   | 2.00                         | 0.27                                    | 0.25                                        | HM71-40330LF | 33                                    | 0.080                        | 4.0                                     | 2.0                                         |
| HM71-10221LF | 220                                   | 2.65                         | 0.22                                    | 0.2                                         | HM71-40470LF | 47                                    | 0.110                        | 3.8                                     | 1.6                                         |
| HM71-10331LF | 330                                   | 3.8                          | 0.18                                    | 0.16                                        | HM71-40680LF | 68                                    | 0.170                        | 3.0                                     | 1.2                                         |
| HM71-10471LF | 470                                   | 5.06                         | 0.16                                    | 0.15                                        | HM71-40101LF | 100                                   | 0.220                        | 2.5                                     | 1.2                                         |
| HM71-10681LF | 680                                   | 9.20                         | 0.14                                    | 0.12                                        | HM71-40151LF | 150                                   | 0.340                        | 2.0                                     | 0.9                                         |
| HM71-10102LF | 1000                                  | 13.8                         | 0.1                                     | 0.07                                        | HM71-40221LF | 220                                   | 0.440                        | 1.6                                     | 0.7                                         |
| HM71-20100LF | 10                                    | 0.11                         | 2.4                                     | 2.0                                         | HM71-40331LF | 330                                   | 0.70                         | 1.2                                     | 0.6                                         |
| HM71-20150LF | 15                                    | 0.15                         | 2.0                                     | 1.5                                         | HM71-40471LF | 470                                   | 0.950                        | 1.0                                     | 0.3                                         |
| HM71-20220LF | 22                                    | 0.23                         | 1.6                                     | 1.3                                         | HM71-40681LF | 680                                   | 1.20                         | 1.0                                     | 0.2                                         |
| HM71-20330LF | 33                                    | 0.30                         | 1.4                                     | 1.1                                         | HM71-40102LF | 1000                                  | 2.00                         | 0.8                                     | 0.1                                         |
| HM71-20470LF | 47                                    | 0.39                         | 1.0                                     | 0.8                                         | HM71-501ROLF | 1.0                                   | 0.009                        | 20.0                                    | 8.6                                         |
| HM71-20680LF | 68                                    | 0.66                         | 0.9                                     | 0.7                                         | HM71-502R2LF | 2.2                                   | 0.014                        | 16.0                                    | 7.1                                         |
| HM71-20101LF | 100                                   | 0.84                         | 0.7                                     | 0.6                                         | HM71-503R3LF | 3.3                                   | 0.015                        | 14.0                                    | 6.2                                         |
| HM71-20151LF | 150                                   | 1.20                         | 0.6                                     | 0.5                                         | HM71-505R6LF | 5.6                                   | 0.020                        | 12.0                                    | 5.3                                         |
| HM71-20221LF | 220                                   | 1.90                         | 0.5                                     | 0.4                                         | HM71-50100LF | 10                                    | 0.031                        | 10.0                                    | 4.3                                         |
| HM71-20331LF | 330                                   | 2.70                         | 0.4                                     | 0.3                                         | HM71-50150LF | 15                                    | 0.036                        | 8.0                                     | 4.0                                         |
| HM71-20471LF | 470                                   | 4.00                         | 0.3                                     | 0.2                                         | HM71-50220LF | 22                                    | 0.047                        | 7.0                                     | 3.5                                         |
| HM71-20681LF | 680                                   | 5.30                         | 0.2                                     | 0.1                                         | HM71-50330LF | 33                                    | 0.066                        | 5.5                                     | 3.0                                         |
| HM71-20102LF | 1000                                  | 8.40                         | 0.1                                     | 0.05                                        | HM71-50470LF | 47                                    | 0.086                        | 4.5                                     | 2.6                                         |
| HM71-301ROLF | 1.0                                   | 0.009                        | 9.0                                     | 6.8                                         | HM71-50680LF | 68                                    | 0.130                        | 3.5                                     | 2.3                                         |
| HM71-301R5LF | 1.5                                   | 0.010                        | 8.0                                     | 6.4                                         | HM71-50101LF | 100                                   | 0.190                        | 3.0                                     | 1.8                                         |
| HM71-302R2LF | 2.2                                   | 0.012                        | 7.0                                     | 6.1                                         | HM71-50151LF | 150                                   | 0.250                        | 2.6                                     | 1.5                                         |
| HM71-303R3LF | 3.3                                   | 0.015                        | 6.4                                     | 5.4                                         | HM71-50221LF | 220                                   | 0.380                        | 2.4                                     | 1.2                                         |
| HM71-304R7LF | 4.7                                   | 0.018                        | 5.4                                     | 4.8                                         | HM71-50331LF | 330                                   | 0.560                        | 1.9                                     | 1.0                                         |
| HM71-306R8LF | 6.8                                   | 0.027                        | 4.6                                     | 4.4                                         | HM71-50471LF | 470                                   | 0.850                        | 1.4                                     | 0.82                                        |
| HM71-30100LF | 10                                    | 0.038                        | 3.8                                     | 3.9                                         | HM71-50681LF | 680                                   | 1.10                         | 1.2                                     | 0.72                                        |
| HM71-30150LF | 15                                    | 0.046                        | 3.0                                     | 3.1                                         | HM71-50102LF | 1000                                  | 1.80                         | 1.0                                     | 0.56                                        |
| HM71-30220LF | 22                                    | 0.085                        | 2.6                                     | 2.7                                         |              |                                       |                              |                                         |                                             |

Notes: (1) Inductance is measured at 100 kHz, 0.1 Vrms.  
(2) DC resistance is measured at 20°C.  
(3) Isat is the saturation current at which inductance rolls off approximately 10%.  
(4) Irms is the approximate current at which ΔT = 40°C.

### 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.

**Model HM71****Outline Dimensions (Inch/mm) / Packaging****Ordering Information**

Model Series HM71 - 30 4R7 LF TR

Case Size: 30

10 = Figure 1  
20 = Figure 2  
30 = Figure 2  
40 = Figure 2  
50 = Figure 2

TR - Tape & Reel Packing

Lead-Free

Inductance Code:  
First 2 digits are significant. Last digit denotes the number of trailing zeros. For values below 10μH, "R" denotes the decimal point.

**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.