

## High Current Low Profile Surface Mount Inductors

### Model HM65

#### Features and Benefits

- Operating Temperature Range -40°C to +130°C
- Operating Frequency Up to 3MHz
- RoHS Compliant



### Specifications / Packaging

| Part Number | Inductance <sup>(1)</sup><br>Nominal<br>µH<br>± 20% | Rated DC Current <sup>(2)</sup><br>(Amps) |       | Heating Current <sup>(3)</sup><br>(Amps) | DC Resistance <sup>(4)</sup><br>(Amps) |            | Case Size | Ht<br>Height<br>mm Max. | 13" reel<br>Qty<br>(Units) |
|-------------|---|---|-------|--|--|------------|-----------|-------------------------|----------------------------|
|             |   | 25°C                                      | 130°C |  | mΩ<br>Typ.                             | mΩ<br>Max. |           |                         |                            |
| HM65-H1R0LF | 1.0   | 20.0                                      | 13.5  | 19.9                                     | 1.7                                    | 2.5        | Standard  | 5.6                     | 400                        |
| HM65-H1R8LF | 1.8   | 15.3                                      | 11.5  | 15.2                                     | 2.9                                    | 3.4        | Standard  | 5.6                     | 400                        |
| HM65-H2R8LF | 2.8   | 12.3                                      | 10.5  | 12.1                                     | 4.6                                    | 5.4        | Standard  | 5.6                     | 400                        |
| HM65-H3R9LF | 3.9   | 10.5                                      | 8.3   | 11.4                                     | 5.2                                    | 8.0        | Standard  | 5.6                     | 400                        |
| HM65-H4R0LF | 4.0   | 10.3                                      | 8.0   | 11.4                                     | 5.2                                    | 8.0        | Standard  | 5.6                     | 400                        |
| HM65-H5R6LF | 5.6   | 8.8                                       | 7.5   | 8.1                                      | 10.2                                   | 11.4       | Standard  | 5.6                     | 400                        |
| HM65-H6R0LF | 6.0   | 8.0                                       | 6.5   | 8.1                                      | 10.2                                   | 11.4       | Standard  | 5.6                     | 400                        |
| HM65-H7R2LF | 7.2   | 7.8                                       | 6.0   | 7.8                                      | 11.4                                   | 13.5       | Standard  | 6.0                     | 400                        |
| HM65-1R5LF  | 1.5   | 14.0                                      | 10.5  | 17.1                                     | 1.7                                    | 2.5        | Standard  | 5.6                     | 400                        |
| HM65-2R5LF  | 2.5   | 10.0                                      | 8.0   | 15.2                                     | 2.9                                    | 3.4        | Standard  | 5.6                     | 400                        |
| HM65-6R0LF  | 6.0   | 6.7                                       | 4.5   | 11.5                                     | 5.1                                    | 8.0        | Standard  | 5.6                     | 400                        |
| HM65-8R2LF  | 8.2   | 5.8                                       | 4.5   | 8.1                                      | 10.2                                   | 11.4       | Standard  | 5.6                     | 400                        |
| HM65-100LF  | 10.0  | 5.0                                       | 4.0   | 7.8                                      | 11.3                                   | 13.5       | Standard  | 5.6                     | 400                        |
| HM65-P1R0LF | 1.0   | 20.0                                      | 20.0  | 19.9                                     | 1.7                                    | 2.5        | Standard  | 6.0                     | 400                        |
| HM65-P1R2LF | 1.2   | 18.0                                      | 18.0  | 19.9                                     | 1.7                                    | 2.5        | Standard  | 6.0                     | 400                        |
| HM65-P1R8LF | 1.8   | 16.0                                      | 16.0  | 15.2                                     | 2.9                                    | 3.4        | Standard  | 6.0                     | 400                        |
| HM65-P2R5LF | 2.5   | 10.0                                      | 10.0  | 15.2                                     | 2.9                                    | 3.4        | Standard  | 6.0                     | 400                        |
| HM65-M0R5LF | 0.5   | 29.0                                      | 24.0  | 16.3                                     | 1.8                                    | 3.0        | Mini      | 5.6                     | 500                        |
| HM65-M0R8LF | 0.8   | 20.0                                      | 16.0  | 16.3                                     | 1.8                                    | 3.0        | Mini      | 5.6                     | 500                        |
| HM65-M2R5LF | 2.5   | 12.0                                      | 10.0  | 9.3                                      | 5.5                                    | 6.8        | Mini      | 5.6                     | 500                        |

Notes: (1) Inductance is measured at 100kHz, 0.1V without DC current.  
 (2) Rated DC current is the approximate current at which inductance will be decreased by 25% from its initial (zero DC) value.  
 (3) Heating current is the DC current which causes the inductor temperature to increase by approximately 40°C.  
 (4) DC resistance is measured at 25°C.

### Outline Dimensions (mm)

**Top View**

**Side View**

Refer to Specifications Table

**Bottom View**

**Recommended Solder Pad Layout**

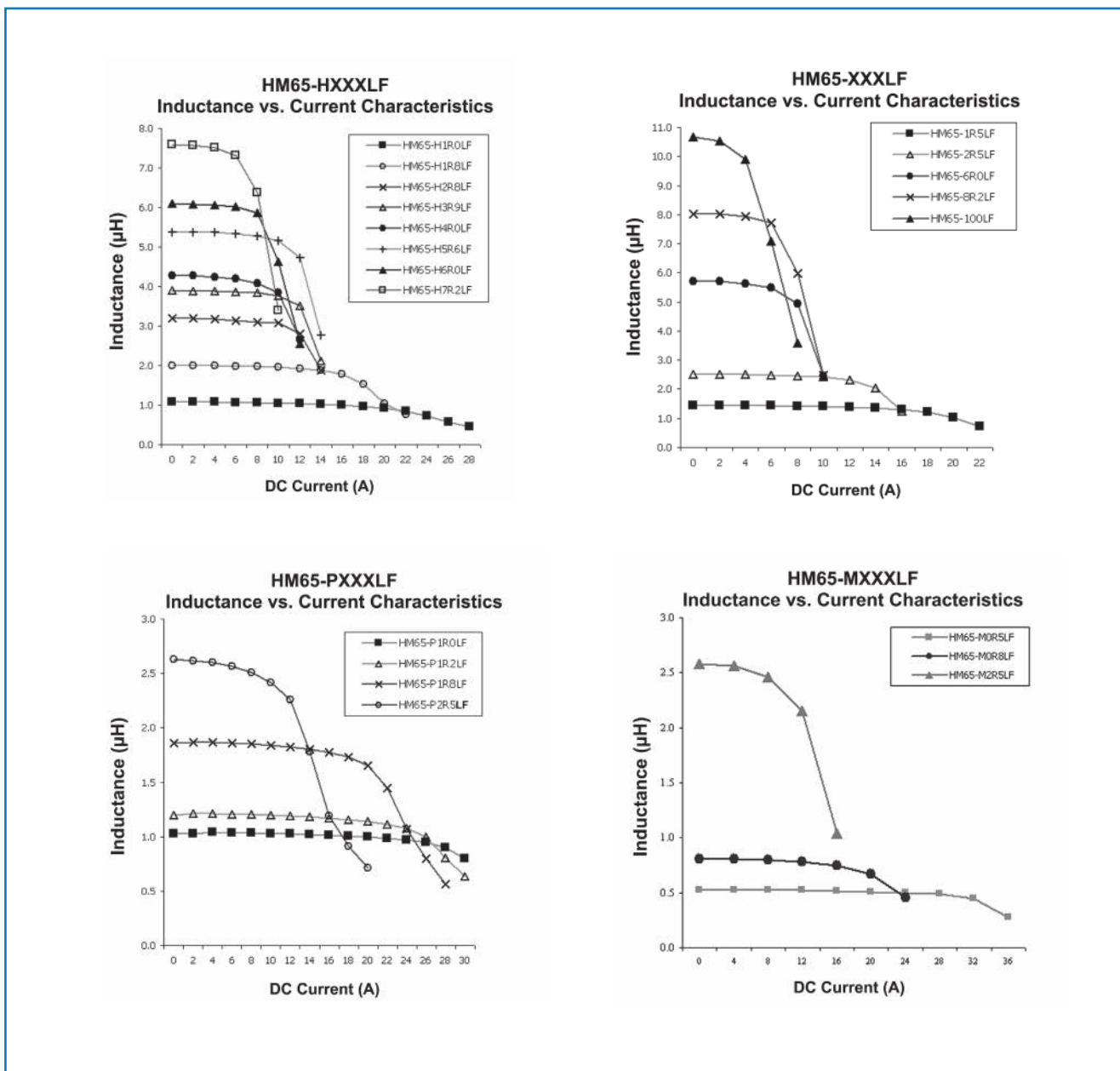
| Case Size | A    | B    | C   | D   | E   | F   | G   | H   | I    | J   | K   | L   | M   | N   | P   |
|-----------|------|------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|
| Standard  | 12.5 | 13.5 | 7.3 | 2.6 | 2.6 | 2.6 | 2.6 | 7.4 | 13.9 | 4.4 | 6.9 | 3.0 | 3.8 | 3.2 | 3.0 |
| Mini      | 10.4 | 10.4 | 6.7 | 2.6 | 1.5 | 2.3 | 1.1 | 5.5 | 10.8 | 2.5 | 6.5 | 1.8 | 2.8 | 1.5 | 3.0 |

#### General Note

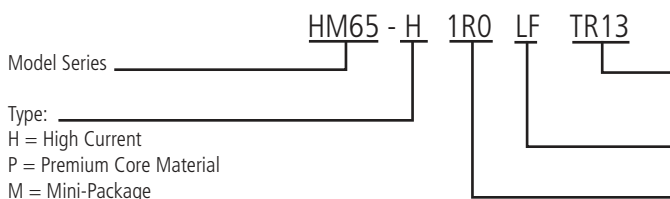
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Model HM65

Electrical Characteristic @ 25°C



Ordering Information



TR - Tape & Reel Packing  
13 - 13" reel

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

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