

## Electrical / Environmental

# HM62-2610

Surface Mount Power Inductors

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



## Schematic

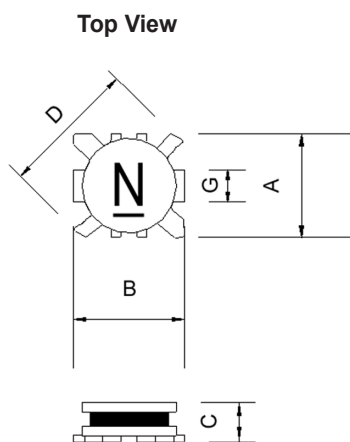


## Specifications @ 25°C / Packaging

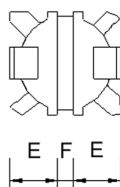
| Part Number     | Inductance<br>100kHz, 0.1Vrms<br>@ 0 Adc |            | DCR<br>$\Omega$<br>$\pm 20\%$ | $I_{rated}^{(1)}$<br>(Adc)<br>Max. | $I_{sat}^{(2)}$<br>(Adc)<br>Max. | Heating <sup>(3)</sup><br>Current<br>(Adc)<br>Max. | Marking<br>Code | 13" Reel<br>Qty<br>(Units) | Carton<br>Box<br>Qty<br>(Units) |
|-----------------|------------------------------------------|------------|-------------------------------|------------------------------------|----------------------------------|----------------------------------------------------|-----------------|----------------------------|---------------------------------|
|                 | $\mu H$                                  | Tolerance  |                               |                                    |                                  |                                                    |                 |                            |                                 |
| HM62-26101R0NLF | 1.0                                      | $\pm 30\%$ | 0.092                         | 1.40                               | 1.77                             | 1.55                                               | A               | 5,000                      | 50,000                          |
| HM62-26102R2MLF | 2.2                                      | $\pm 20\%$ | 0.179                         | 1.00                               | 1.30                             | 1.28                                               | D               | 5,000                      | 50,000                          |
| HM62-26103R3MLF | 3.3                                      | $\pm 20\%$ | 0.219                         | 0.85                               | 1.10                             | 0.98                                               | F               | 5,000                      | 50,000                          |
| HM62-26104R7MLF | 4.7                                      | $\pm 20\%$ | 0.282                         | 0.70                               | 0.95                             | 0.86                                               | H               | 5,000                      | 50,000                          |
| HM62-26106R8MLF | 6.8                                      | $\pm 20\%$ | 0.453                         | 0.61                               | 0.75                             | 0.73                                               | J               | 5,000                      | 50,000                          |
| HM62-2610100MLF | 10                                       | $\pm 20\%$ | 0.667                         | 0.45                               | 0.58                             | 0.52                                               | L               | 5,000                      | 50,000                          |
| HM62-2610150MLF | 15                                       | $\pm 20\%$ | 0.857                         | 0.40                               | 0.50                             | 0.43                                               | N               | 5,000                      | 50,000                          |
| HM62-2610220MLF | 22                                       | $\pm 20\%$ | 1.511                         | 0.33                               | 0.38                             | 0.32                                               | Q               | 5,000                      | 50,000                          |

Notes: (1) The rated current ( $I_{rated}$ ) is the current at which the inductance will be decreased by 10% from its initial (zero DC) value.  
 (2) The saturation current ( $I_{sat}$ ) is the current at which the inductance rolls off approximately 30% from its initial (zero DC) value.  
 (3) The heating current is the DC current which causes the inductor temperature to increase by approximately 40°C.

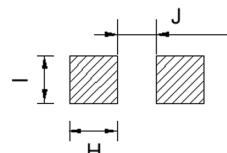
## Outline Dimensions (mm)



Bottom View

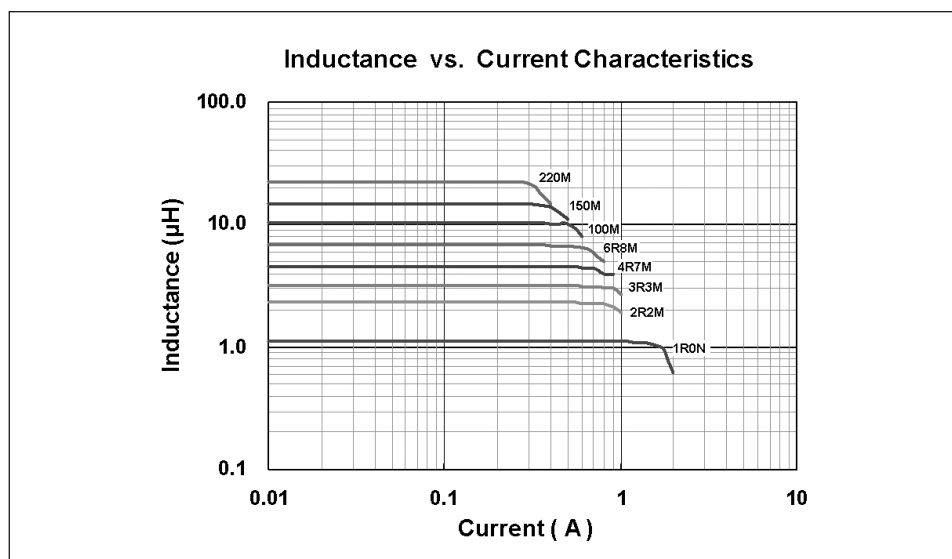
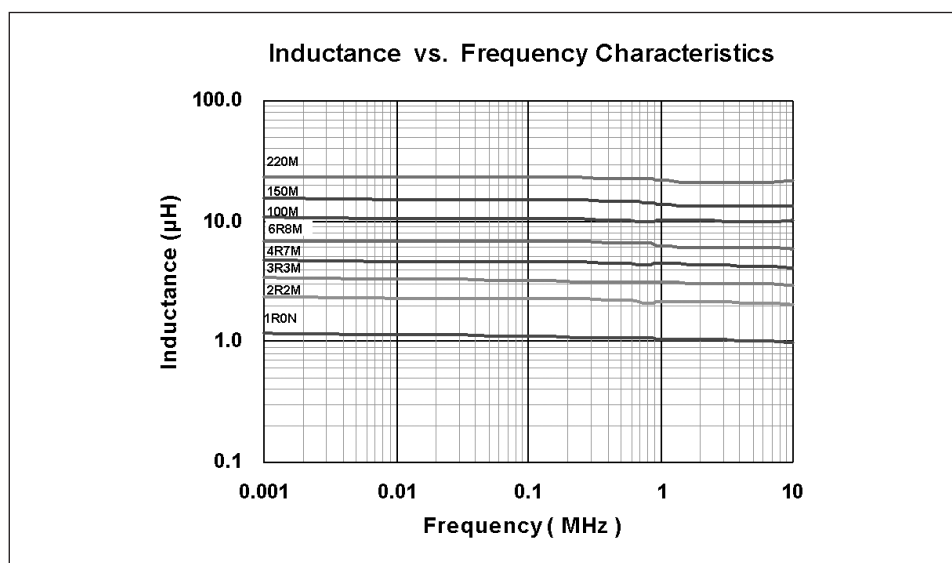


Recommended Solder Pad Layout

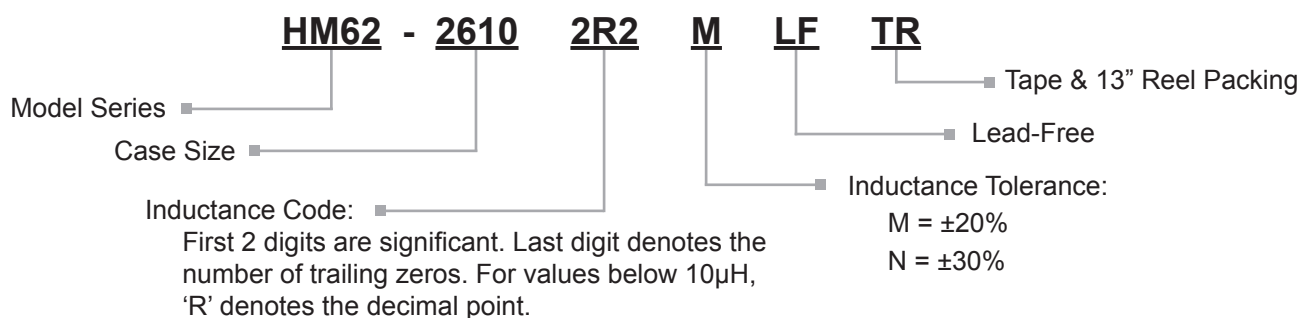


| A               | B               | C         | D         | E         | F         | G         | H   | I   | J   |
|-----------------|-----------------|-----------|-----------|-----------|-----------|-----------|-----|-----|-----|
| 2.60 $\pm$ 0.20 | 2.80 $\pm$ 0.20 | 1.00 Max. | 3.82 Max. | 1.15 Ref. | 0.50 Ref. | 0.80 Ref. | 1.2 | 1.2 | 1.0 |

## Electrical Characteristics @ 25°C



## Ordering Information



## Electrical / Environmental

# HM62-2815

Surface Mount Power Inductors

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



## Schematic

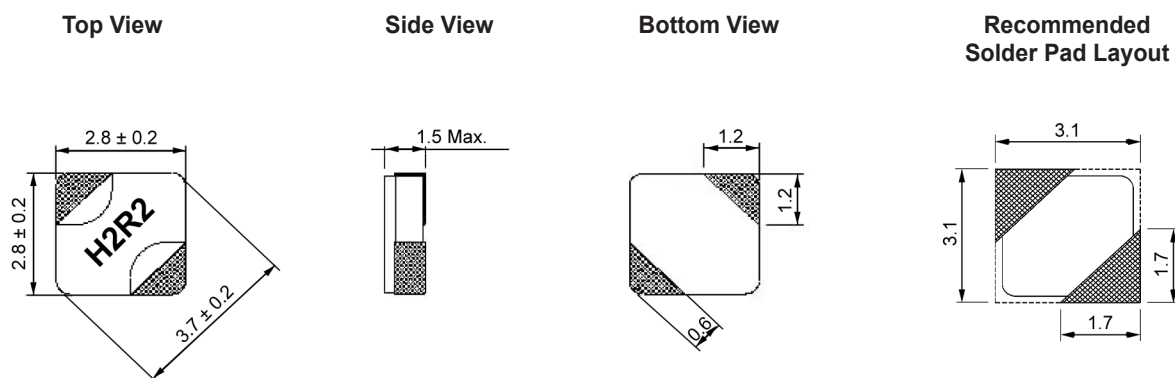


## Specifications @ 25°C / Packaging

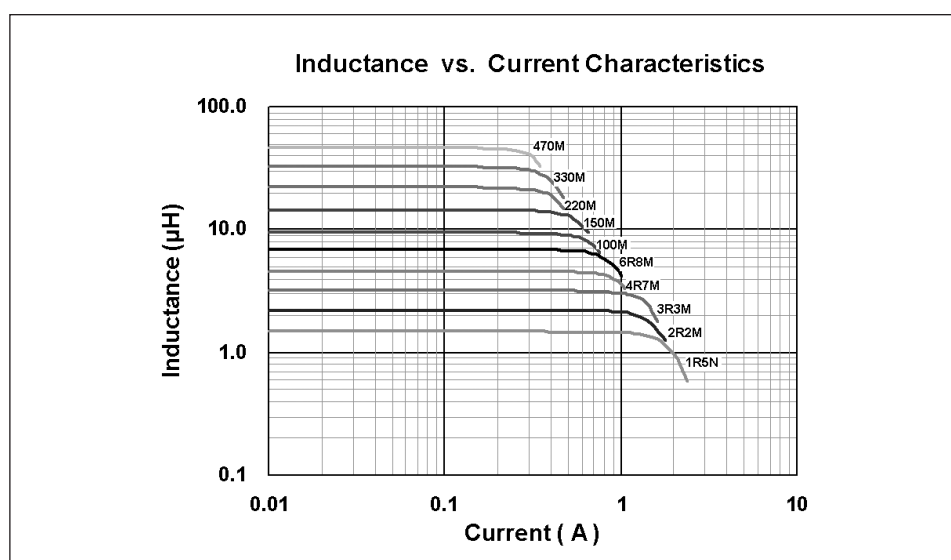
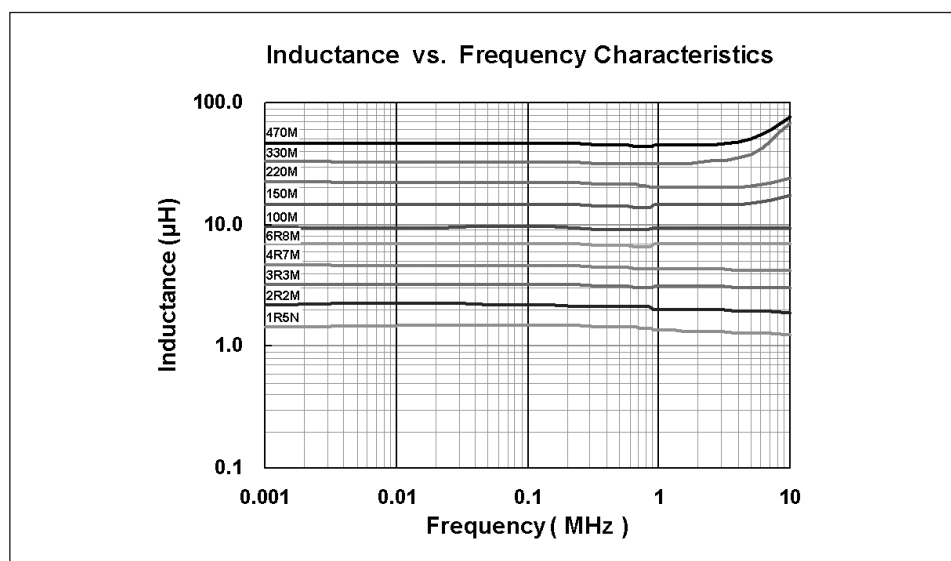
| Part Number     | Inductance<br>100kHz, 0.5Vrms<br>@ 0 Adc |       | DCR<br>$\Omega$ |       | $I_{rated}^{(1)}$<br>(Adc) | $I_{sat}^{(2)}$<br>(Adc) | Heating <sup>(3)</sup><br>Current<br>(Adc) | Marking<br>Code | 13" Reel<br>Qty<br>(Units) | Carton<br>Box<br>Qty<br>(Units) |
|-----------------|------------------------------------------|-------|-----------------|-------|----------------------------|--------------------------|--------------------------------------------|-----------------|----------------------------|---------------------------------|
|                 | $\mu H$                                  | Tol.  | Typ.            | Max.  | Max.                       | Max.                     | Max.                                       |                 |                            |                                 |
| HM62-28151R5NLF | 1.5                                      | ± 30% | 0.062           | 0.069 | 1.05                       | 1.65                     | 1.65                                       | H1R5            | 4,000                      | 40,000                          |
| HM62-28152R2MLF | 2.2                                      | ± 20% | 0.084           | 0.098 | 0.87                       | 1.40                     | 1.40                                       | H2R2            | 4,000                      | 40,000                          |
| HM62-28153R3MLF | 3.3                                      | ± 20% | 0.123           | 0.140 | 0.70                       | 1.10                     | 1.20                                       | H3R3            | 4,000                      | 40,000                          |
| HM62-28154R7MLF | 4.7                                      | ± 20% | 0.172           | 0.190 | 0.70                       | 0.90                     | 1.10                                       | H4R7            | 4,000                      | 40,000                          |
| HM62-28156R8MLF | 6.8                                      | ± 20% | 0.254           | 0.270 | 0.60                       | 0.85                     | 0.90                                       | H6R8            | 4,000                      | 40,000                          |
| HM62-2815100MLF | 10                                       | ± 20% | 0.386           | 0.410 | 0.42                       | 0.68                     | 0.75                                       | H100            | 4,000                      | 40,000                          |
| HM62-2815150MLF | 15                                       | ± 20% | 0.497           | 0.520 | 0.26                       | 0.58                     | 0.65                                       | H150            | 4,000                      | 40,000                          |
| HM62-2815220MLF | 22                                       | ± 20% | 0.709           | 0.740 | 0.26                       | 0.48                     | 0.50                                       | H220            | 4,000                      | 40,000                          |
| HM62-2815330MLF | 33                                       | ± 20% | 1.116           | 1.250 | 0.21                       | 0.35                     | 0.40                                       | H330            | 4,000                      | 40,000                          |
| HM62-2815470MLF | 47                                       | ± 20% | 1.835           | 1.980 | 0.20                       | 0.30                     | 0.30                                       | H470            | 4,000                      | 40,000                          |

Notes: (1) The rated current ( $I_{rated}$ ) is the current at which the inductance will be decreased by 10% from its initial (zero DC) value.  
 (2) The saturation current ( $I_{sat}$ ) is the current at which the inductance rolls off approximately 35% from its initial (zero DC) value.  
 (3) The heating current is the DC current which causes the inductor temperature to increase by approximately 40°C.

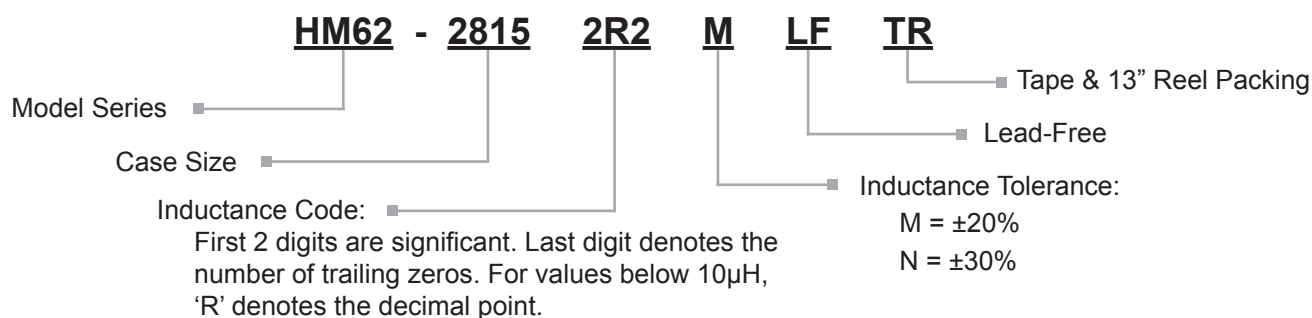
## Outline Dimensions (mm)



## Electrical Characteristics @ 25°C



## Ordering Information



## Electrical / Environmental

# HM62-3214

Surface Mount Power Inductors

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



## Schematic

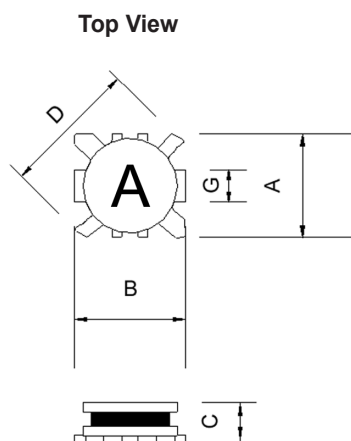


## Specifications @ 25°C / Packaging

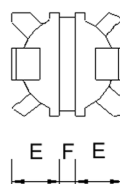
| Part Number     | Inductance<br>100kHz, 0.1Vrms<br>@ 0 Adc |            | DCR<br>$\Omega$<br>$\pm 20\%$ | $I_{rated}^{(1)}$<br>(Adc)<br>Max. | $I_{sat}^{(2)}$<br>(Adc)<br>Max. | Heating <sup>(3)</sup><br>Current<br>(Adc)<br>Max. | Marking<br>Code | 13" Reel<br>Qty<br>(Units) | Carton<br>Box<br>Qty<br>(Units) |
|-----------------|------------------------------------------|------------|-------------------------------|------------------------------------|----------------------------------|----------------------------------------------------|-----------------|----------------------------|---------------------------------|
|                 | $\mu H$                                  | Tolerance  |                               |                                    |                                  |                                                    |                 |                            |                                 |
| HM62-32141R0MLF | 1.0                                      | $\pm 20\%$ | 0.088                         | 2.10                               | 3.35                             | 1.70                                               | A               | 4,000                      | 40,000                          |
| HM62-32141R5MLF | 1.5                                      | $\pm 20\%$ | 0.120                         | 2.00                               | 2.70                             | 1.40                                               | B               | 4,000                      | 40,000                          |
| HM62-32142R2MLF | 2.2                                      | $\pm 20\%$ | 0.153                         | 1.60                               | 2.30                             | 1.30                                               | D               | 4,000                      | 40,000                          |
| HM62-32143R3MLF | 3.3                                      | $\pm 20\%$ | 0.193                         | 1.40                               | 1.90                             | 1.20                                               | F               | 4,000                      | 40,000                          |
| HM62-32144R7MLF | 4.7                                      | $\pm 20\%$ | 0.290                         | 1.20                               | 1.60                             | 0.90                                               | H               | 4,000                      | 40,000                          |
| HM62-32146R8MLF | 6.8                                      | $\pm 20\%$ | 0.356                         | 0.92                               | 1.35                             | 0.80                                               | J               | 4,000                      | 40,000                          |
| HM62-32148R2MLF | 8.2                                      | $\pm 20\%$ | 0.495                         | 0.90                               | 1.20                             | 0.65                                               | K               | 4,000                      | 40,000                          |
| HM62-3214100MLF | 10                                       | $\pm 20\%$ | 0.547                         | 0.80                               | 1.05                             | 0.60                                               | L               | 4,000                      | 40,000                          |
| HM62-3214150MLF | 15                                       | $\pm 20\%$ | 0.696                         | 0.68                               | 0.92                             | 0.55                                               | N               | 4,000                      | 40,000                          |
| HM62-3214220MLF | 22                                       | $\pm 20\%$ | 0.942                         | 0.56                               | 0.75                             | 0.45                                               | Q               | 4,000                      | 40,000                          |
| HM62-3214330MLF | 33                                       | $\pm 20\%$ | 1.264                         | 0.51                               | 0.63                             | 0.40                                               | P               | 4,000                      | 40,000                          |
| HM62-3214101MLF | 100                                      | $\pm 20\%$ | 4.042                         | 0.28                               | 0.35                             | 0.20                                               | S               | 4,000                      | 40,000                          |

- Notes: (1) The rated current ( $I_{rated}$ ) is the current at which the inductance will be decreased by 10% from its initial (zero DC) value.  
 (2) The saturation current ( $I_{sat}$ ) is the current at which the inductance rolls off approximately 30% from its initial (zero DC) value.  
 (3) The heating current is the DC current which causes the inductor temperature to increase by approximately 40°C.

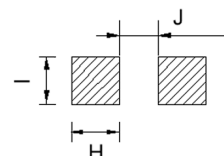
## Outline Dimensions (mm)



Bottom View

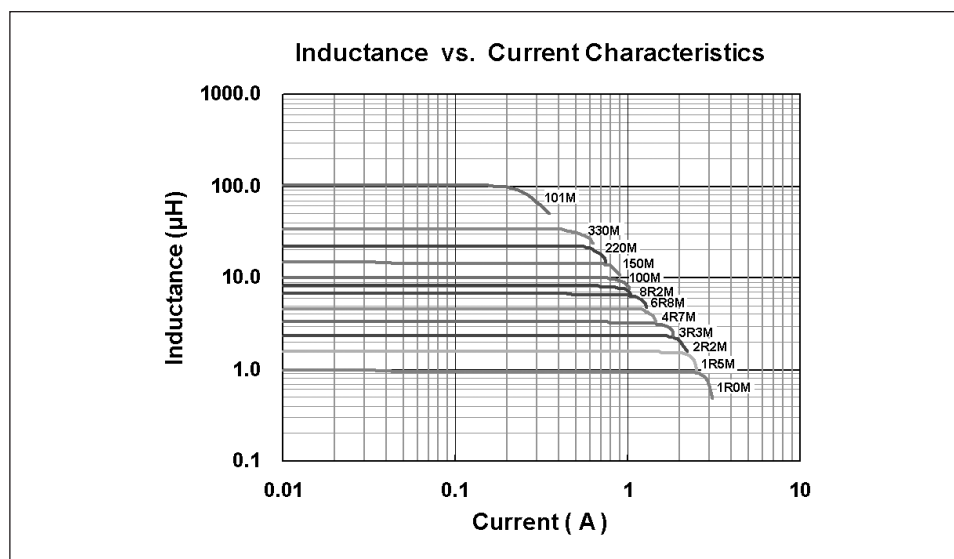
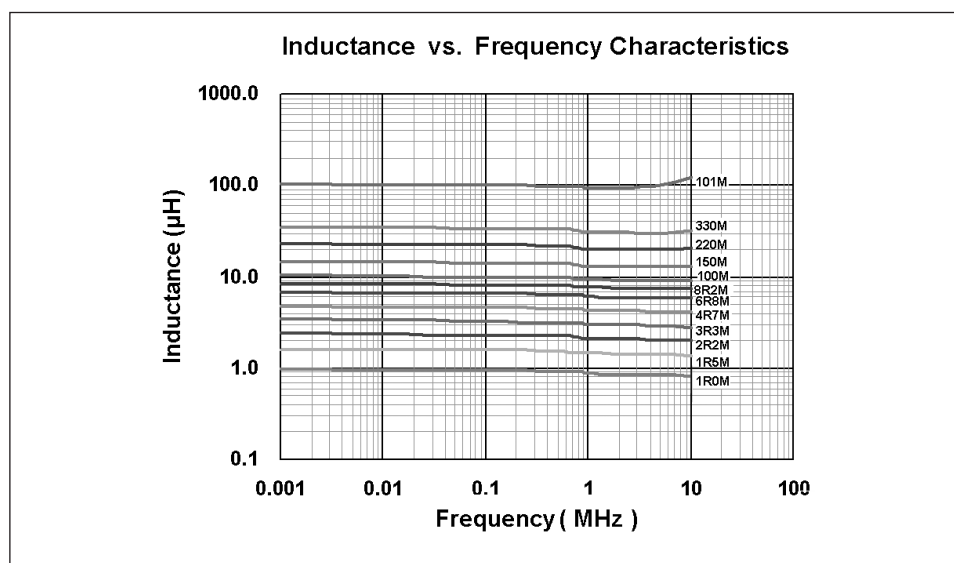


Recommended Solder Pad Layout

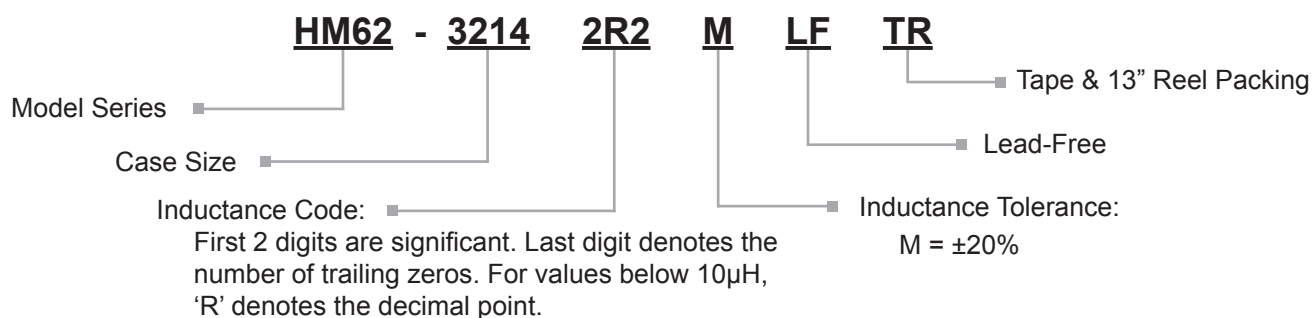


| A               | B               | C         | D         | E         | F         | G         | H   | I   | J   |
|-----------------|-----------------|-----------|-----------|-----------|-----------|-----------|-----|-----|-----|
| 3.20 $\pm$ 0.30 | 3.20 $\pm$ 0.30 | 1.40 Max. | 4.50 Max. | 1.25 Ref. | 0.70 Ref. | 1.00 Ref. | 1.2 | 1.4 | 1.4 |

## Electrical Characteristics @ 25°C



## Ordering Information



## Electrical / Environmental

# HM62-3715

Surface Mount Power Inductors

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



## Schematic



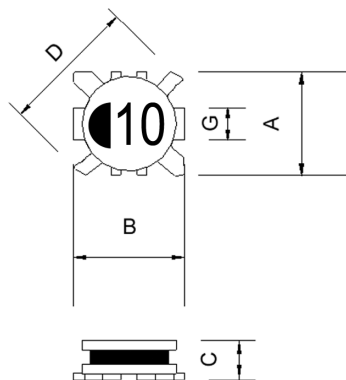
## Specifications @ 25°C / Packaging

| Part Number     | Inductance<br>100kHz, 0.1Vrms<br>@ 0 Adc |            | DCR<br>$\Omega$<br>$\pm 20\%$ | $I_{rated}^{(1)}$<br>(Adc)<br>Max. | $I_{sat}^{(2)}$<br>(Adc)<br>Max. | Heating <sup>(3)</sup><br>Current<br>(Adc)<br>Max. | Marking<br>Code | 13" Reel<br>Qty<br>(Units) | Carton<br>Box<br>Qty<br>(Units) |
|-----------------|------------------------------------------|------------|-------------------------------|------------------------------------|----------------------------------|----------------------------------------------------|-----------------|----------------------------|---------------------------------|
|                 | $\mu H$                                  | Tolerance  |                               |                                    |                                  |                                                    |                 |                            |                                 |
| HM62-37152R2MLF | 2.2                                      | $\pm 20\%$ | 0.072                         | 1.90                               | 2.60                             | 1.90                                               | 2.2             | 4,000                      | 40,000                          |
| HM62-37153R3MLF | 3.3                                      | $\pm 20\%$ | 0.098                         | 1.70                               | 2.20                             | 1.70                                               | 3.3             | 4,000                      | 40,000                          |
| HM62-37154R7MLF | 4.7                                      | $\pm 20\%$ | 0.148                         | 1.40                               | 1.90                             | 1.35                                               | 4.7             | 4,000                      | 40,000                          |
| HM62-37156R8MLF | 6.8                                      | $\pm 20\%$ | 0.202                         | 1.20                               | 1.50                             | 1.15                                               | 6.8             | 4,000                      | 40,000                          |
| HM62-3715100MLF | 10                                       | $\pm 20\%$ | 0.286                         | 0.90                               | 1.25                             | 0.88                                               | 10              | 4,000                      | 40,000                          |
| HM62-3715150MLF | 15                                       | $\pm 20\%$ | 0.419                         | 0.70                               | 1.00                             | 0.70                                               | 15              | 4,000                      | 40,000                          |
| HM62-3715220MLF | 22                                       | $\pm 20\%$ | 0.622                         | 0.60                               | 0.85                             | 0.60                                               | 22              | 4,000                      | 40,000                          |
| HM62-3715330MLF | 33                                       | $\pm 20\%$ | 0.980                         | 0.50                               | 0.70                             | 0.47                                               | 33              | 4,000                      | 40,000                          |
| HM62-3715470MLF | 47                                       | $\pm 20\%$ | 1.456                         | 0.40                               | 0.52                             | 0.38                                               | 47              | 4,000                      | 40,000                          |
| HM62-3715221MLF | 220                                      | $\pm 20\%$ | 6.252                         | 0.21                               | 0.29                             | 0.18                                               | 221             | 4,000                      | 40,000                          |

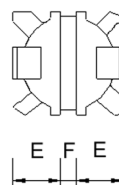
Notes: (1) The rated current ( $I_{rated}$ ) is the current at which the inductance will be decreased by 10% from its initial (zero DC) value.  
(2) The saturation current ( $I_{sat}$ ) is the current at which the inductance rolls off approximately 30% from its initial (zero DC) value.  
(3) The heating current is the DC current which causes the inductor temperature to increase by approximately 40°C.

## Outline Dimensions (mm)

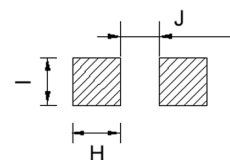
Top View



Bottom View

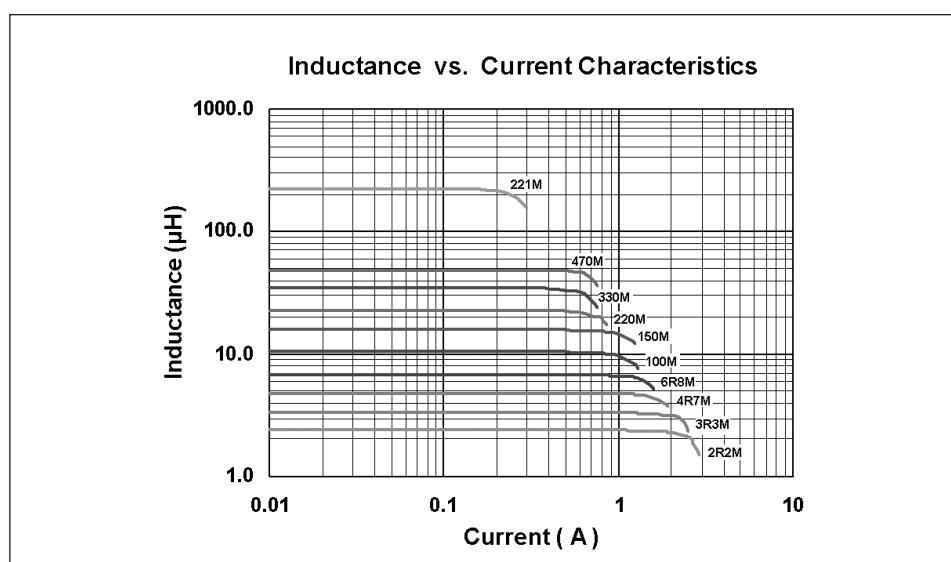
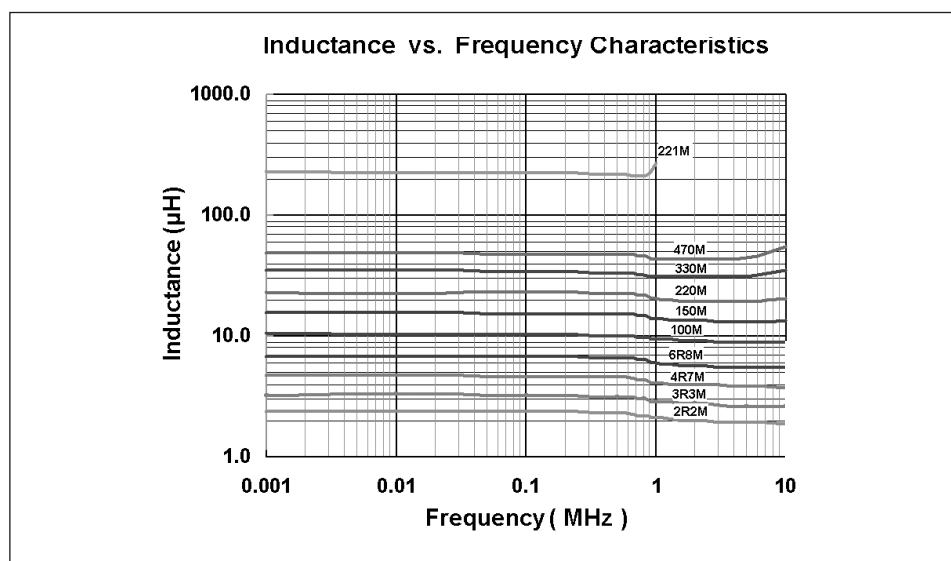


Recommended Solder Pad Layout



| A               | B               | C         | D         | E         | F         | G         | H    | I   | J   |
|-----------------|-----------------|-----------|-----------|-----------|-----------|-----------|------|-----|-----|
| 3.70 $\pm$ 0.30 | 3.70 $\pm$ 0.30 | 1.50 Max. | 5.20 Max. | 1.50 Ref. | 0.70 Ref. | 1.00 Ref. | 1.45 | 1.2 | 1.0 |

## Electrical Characteristics @ 25°C



## Ordering Information

