

Electrical / Environmental

HM62-2610

Surface Mount Power Inductors

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



Schematic

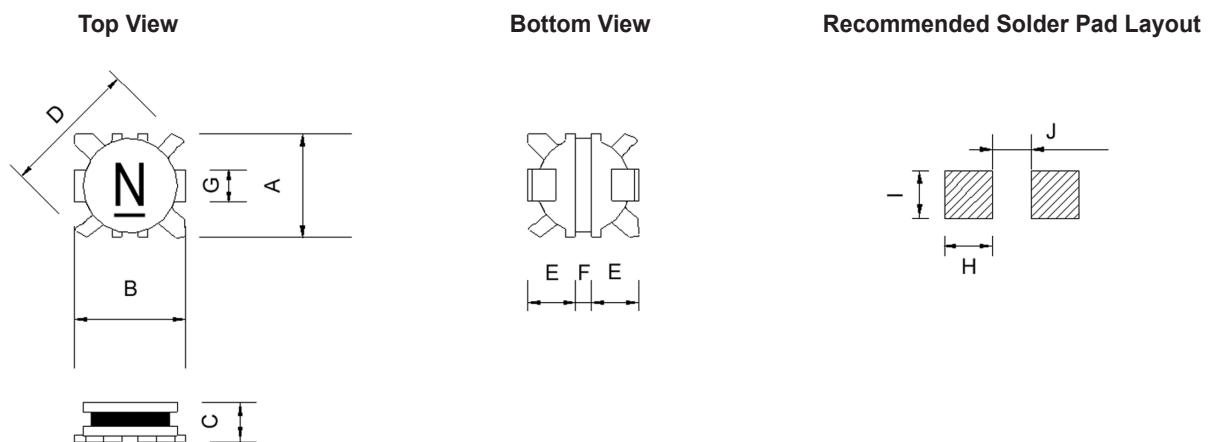


Specifications @ 25°C / Packaging

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

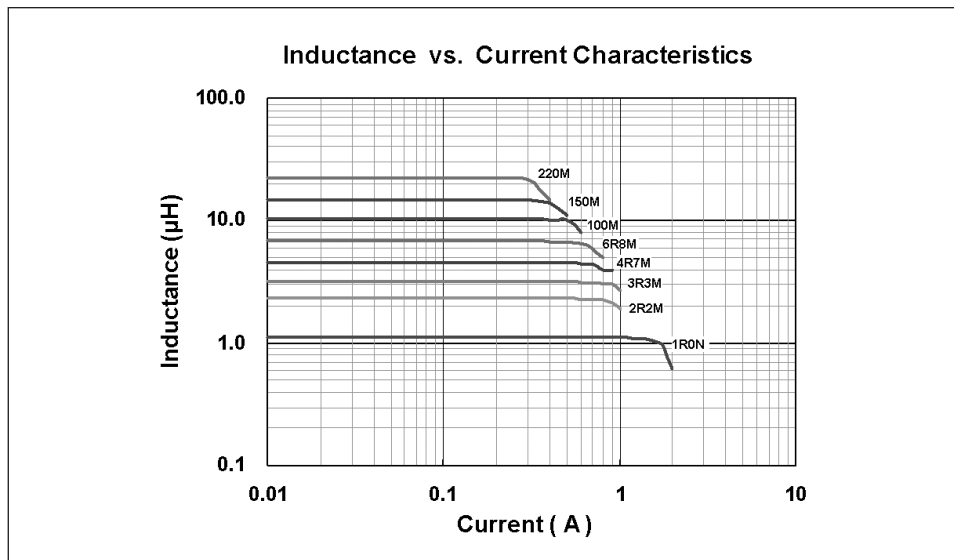
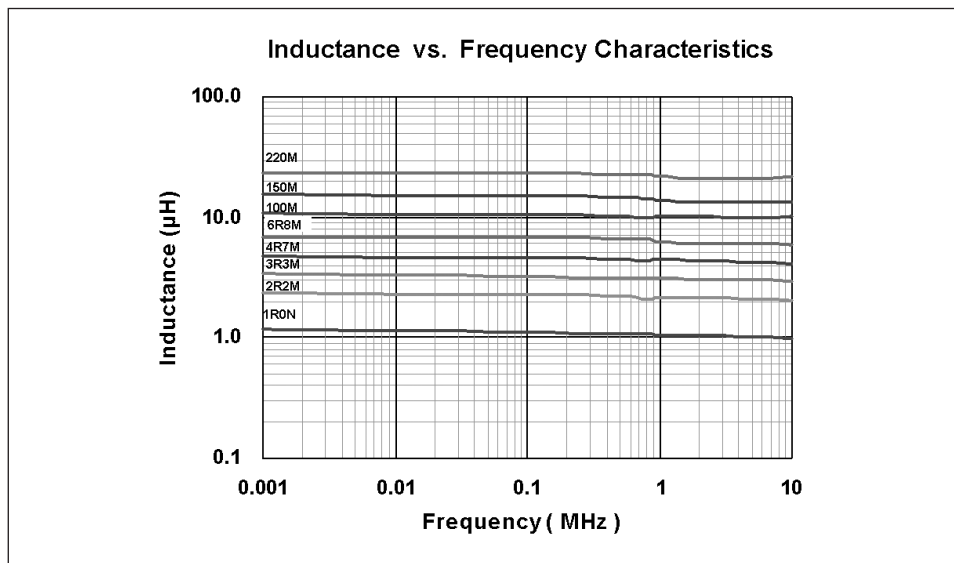
- Notes: (1) The rated current (I_{rated}) is the current at which the inductance will be decreased by 10% from its initial (zero DC) value.
 (2) The saturation current (I_{sat}) is the current at which the inductance rolls off approximately 30% from its initial (zero DC) value.
 (3) The heating current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

Outline Dimensions (mm)

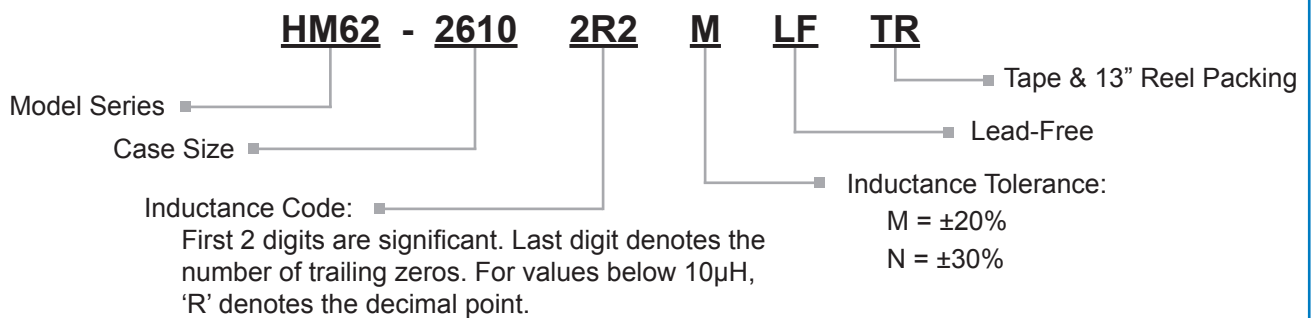


| A | B | C | D | E | F | G | H | I | J |
|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-----|-----|-----|
| 2.60 ± 0.20 | 2.80 ± 0.20 | 1.00 Max. | 3.82 Max. | 1.15 Ref. | 0.50 Ref. | 0.80 Ref. | 1.2 | 1.2 | 1.0 |

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

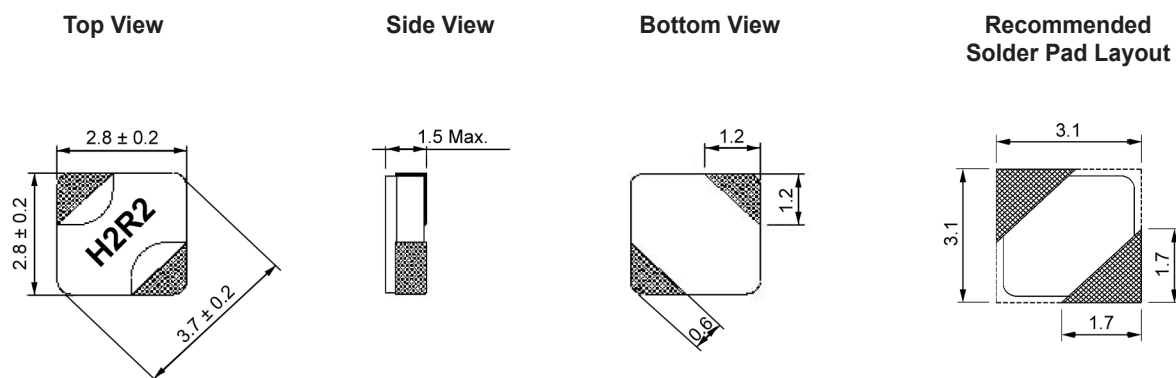


Specifications @ 25°C / Packaging

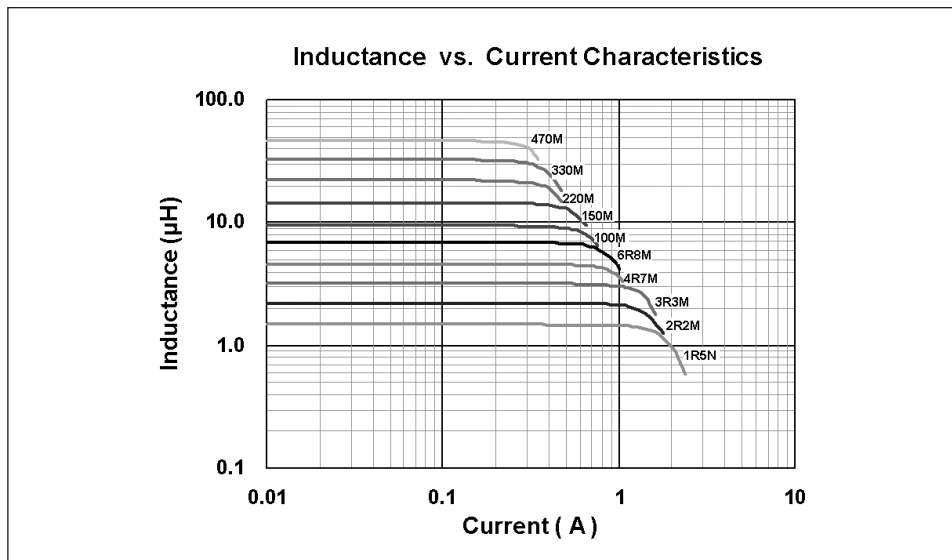
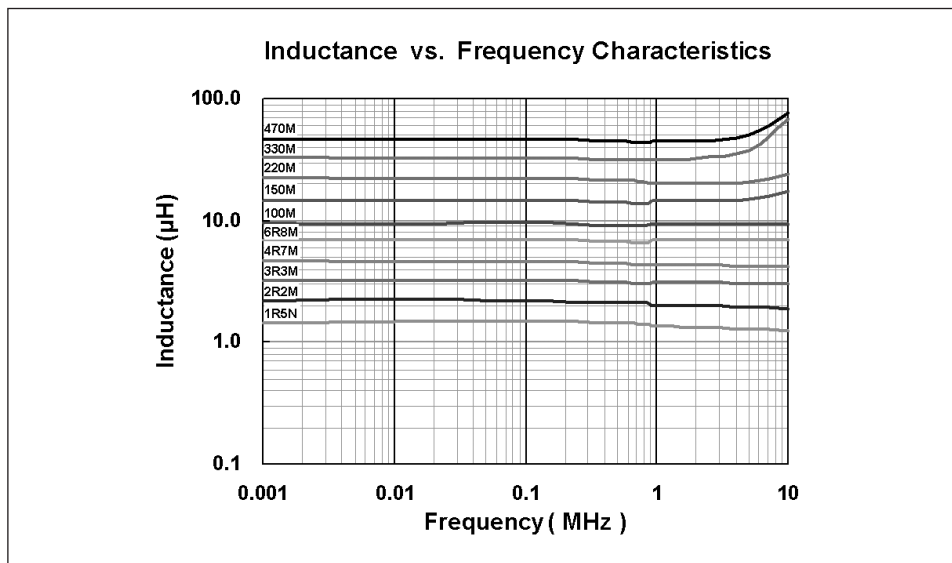
| Part Number | Inductance 100kHz, 0.5Vrms @ 0 Adc | | DCR Ω | | I _{rated} ⁽¹⁾ (Adc) | I _{sat} ⁽²⁾ (Adc) | Heating ⁽³⁾ Current (Adc) | Marking Code | 13" Reel Qty (Units) | Carton Box Qty (Units) |
|-----------------|--|-------|----------|-------|--|--|--|-----------------|----------------------------|---------------------------------|
| | μH | 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.

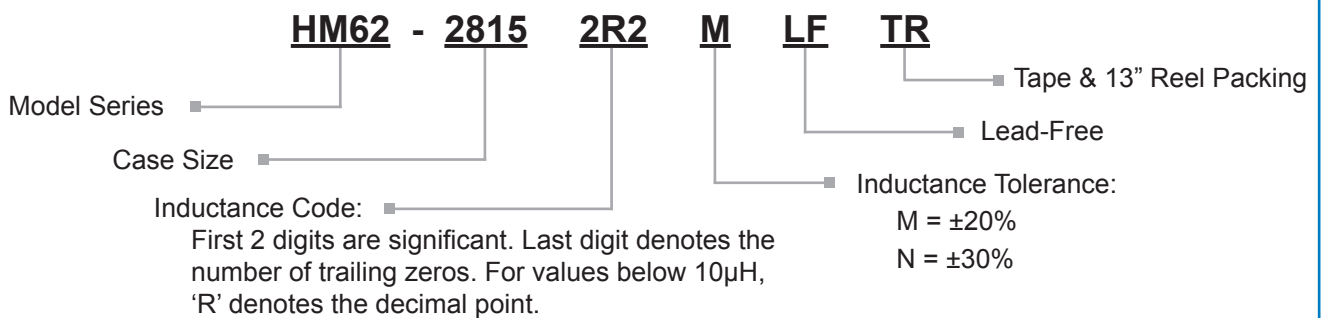
Outline Dimensions (mm)



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

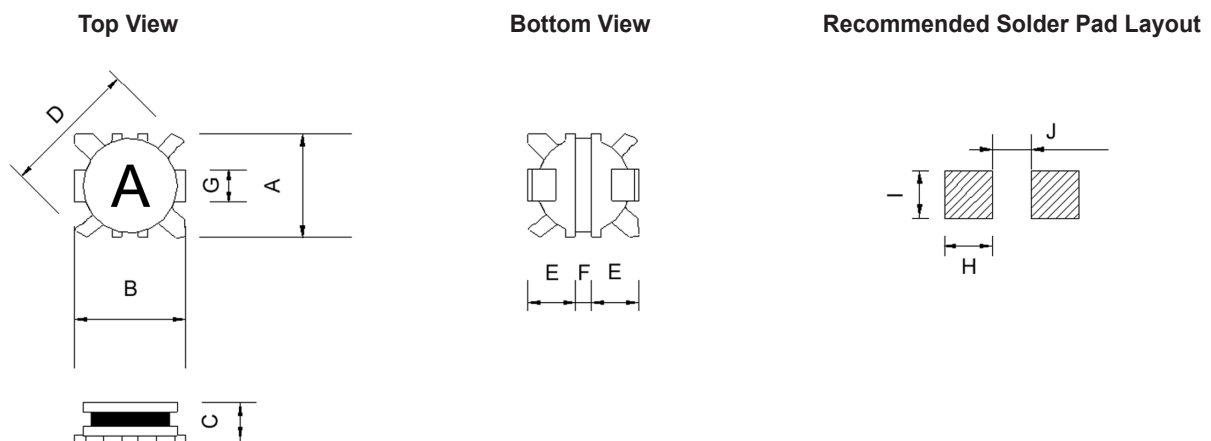


Specifications @ 25°C / Packaging

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

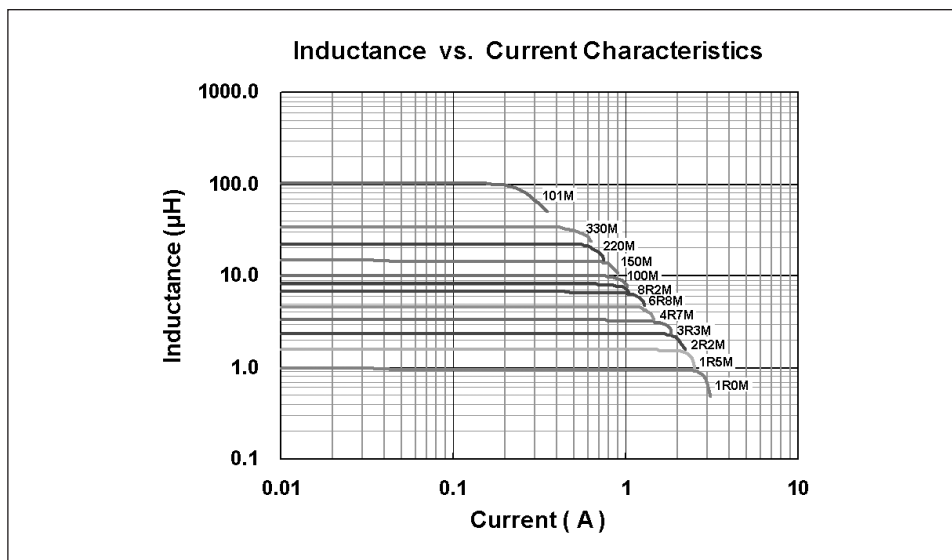
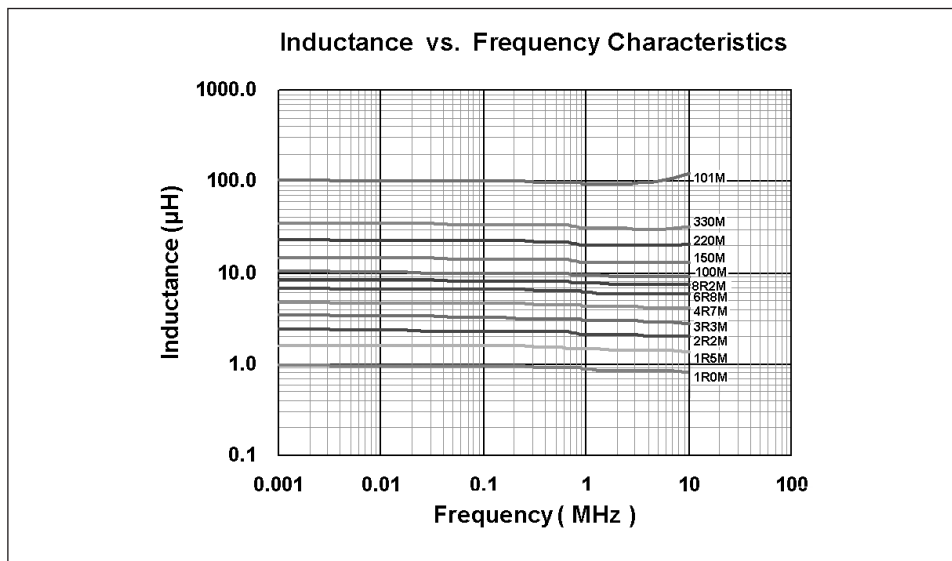
- Notes: (1) The rated current (I_{rated}) is the current at which the inductance will be decreased by 10% from its initial (zero DC) value.
(2) The saturation current (I_{sat}) is the current at which the inductance rolls off approximately 30% from its initial (zero DC) value.
(3) The heating current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

Outline Dimensions (mm)

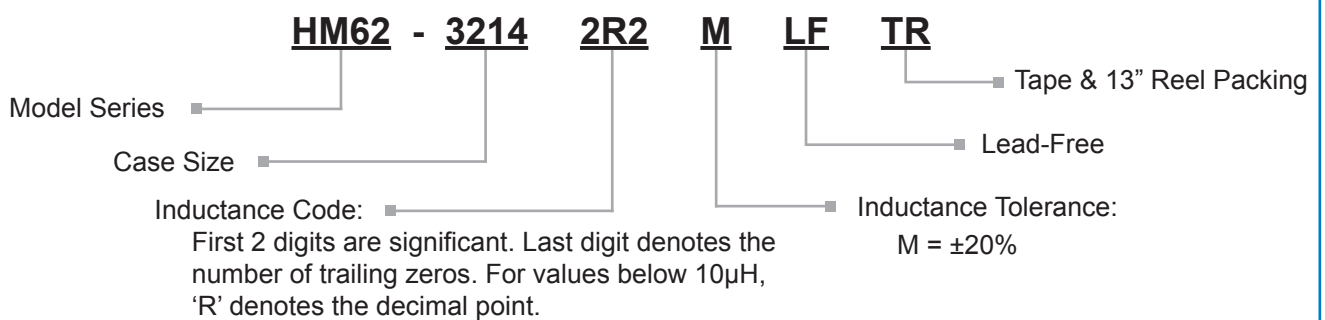


| A | B | C | D | E | F | G | H | I | J |
|-------------|-------------|-----------|-----------|-----------|-----------|-----------|-----|-----|-----|
| 3.20 ± 0.30 | 3.20 ± 0.30 | 1.40 Max. | 4.50 Max. | 1.25 Ref. | 0.70 Ref. | 1.00 Ref. | 1.2 | 1.4 | 1.4 |

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



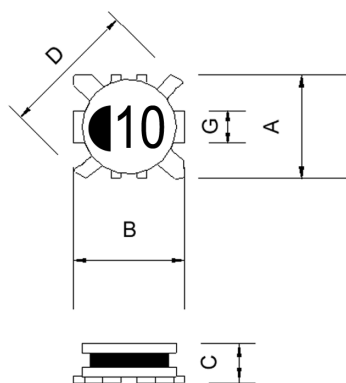
Specifications @ 25°C / Packaging

| Part Number | Inductance 100kHz, 0.1Vrms @ 0 Adc | | DCR Ω ±20% | I _{rated} ⁽¹⁾ (A dc) Max. | I _{sat} ⁽²⁾ (A dc) Max. | Heating ⁽³⁾ Current (A dc) Max. | Marking Code | 13" Reel Qty (Units) | Carton Box Qty (Units) |
|-----------------|--|-----------|------------------|---|---|---|-----------------|----------------------------|---------------------------------|
| | μH | Tolerance | | | | | | | |
| HM62-37152R2MLF | 2.2 | ± 20% | 0.072 | 1.90 | 2.60 | 1.90 | ● 2.2 | 4,000 | 40,000 |
| HM62-37153R3MLF | 3.3 | ± 20% | 0.098 | 1.70 | 2.20 | 1.70 | ● 3.3 | 4,000 | 40,000 |
| HM62-37154R7MLF | 4.7 | ± 20% | 0.148 | 1.40 | 1.90 | 1.35 | ● 4.7 | 4,000 | 40,000 |
| HM62-37156R8MLF | 6.8 | ± 20% | 0.202 | 1.20 | 1.50 | 1.15 | ● 6.8 | 4,000 | 40,000 |
| HM62-3715100MLF | 10 | ± 20% | 0.286 | 0.90 | 1.25 | 0.88 | ● 10 | 4,000 | 40,000 |
| HM62-3715150MLF | 15 | ± 20% | 0.419 | 0.70 | 1.00 | 0.70 | ● 15 | 4,000 | 40,000 |
| HM62-3715220MLF | 22 | ± 20% | 0.622 | 0.60 | 0.85 | 0.60 | ● 22 | 4,000 | 40,000 |
| HM62-3715330MLF | 33 | ± 20% | 0.980 | 0.50 | 0.70 | 0.47 | ● 33 | 4,000 | 40,000 |
| HM62-3715470MLF | 47 | ± 20% | 1.456 | 0.40 | 0.52 | 0.38 | ● 47 | 4,000 | 40,000 |
| HM62-3715221MLF | 220 | ± 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)

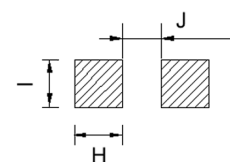
Top View



Bottom View

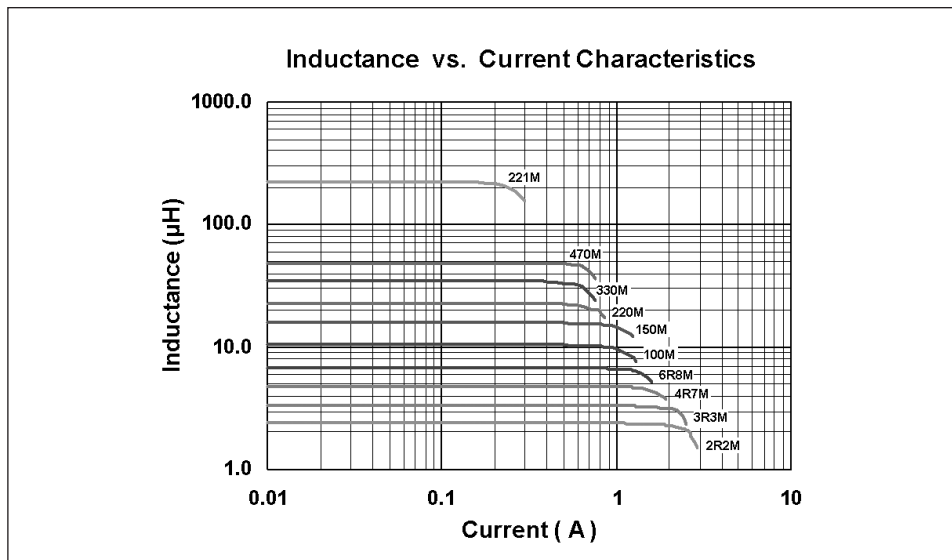
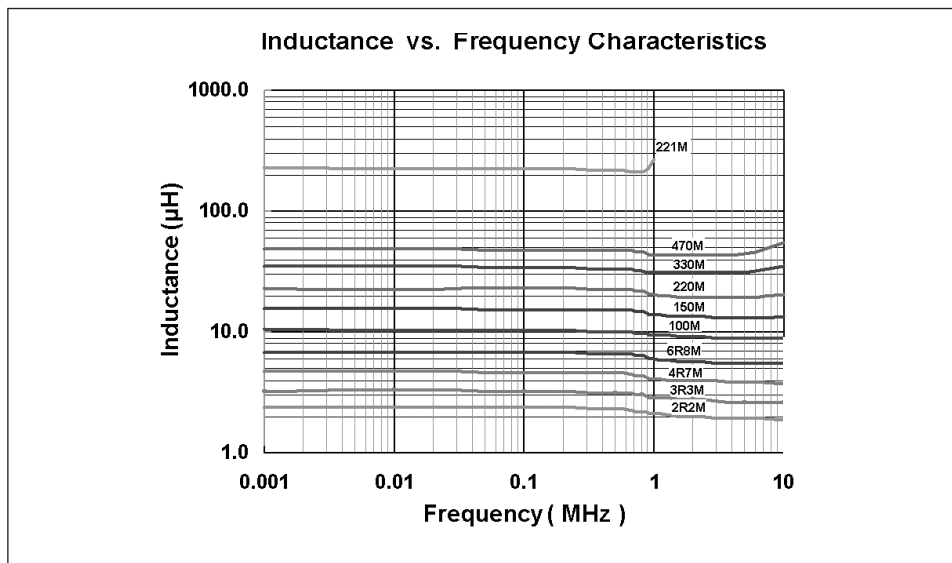


Recommended Solder Pad Layout



| A | B | C | D | E | F | G | H | I | J |
|-------------|-------------|-----------|-----------|-----------|-----------|-----------|------|-----|-----|
| 3.70 ± 0.30 | 3.70 ± 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

