



## WIRE-WOUND CHIP INDUCTOR – CERAMIC / 0603 (1608)

### 0603HM Series Part Numbering

#### Part Numbering (Example)

( Ex. )     0603   H   M -   100   E   J   I   S

#### SIZE

|      |              |
|------|--------------|
| 0402 | 1.0 * 0.5 mm |
| 0603 | 1.6 * 0.8 mm |
| 0805 | 2.0 * 1.2 mm |
| 1008 | 2.5 * 2.0 mm |
| 1206 | 3.2 * 1.6 mm |
| 1210 | 3.2 * 2.5 mm |

#### SHAPE

C : C SHAPE  
H : H SHAPE

#### PROFILE

S: STANDARD  
P: POWER  
M:OPTIMUM DIMENSION

#### INDUCTANCE

- FIRST 2 DIGITS ARE SIGNIFICANT  
- 3 DIGIT IS MULTIPLIER

#### PACK/ FEATURE

S =EIA RS481 CLEAR TAPE & REEL  
/STANDARD TYPE.  
AE=AEC-Q200

#### TERMINAL TYPE/MATERIAL.

T = TERMINAL, CERAMIC CORE (SUBSTRATE)  
F = FERRITE CORE (SUBSTRATE)

#### INDUCTANCE TOLERANCE

G=±2%, H=±3%, J=± 5%, K=±10%, M=±20%  
B=±0.1nH, C=±0.2nH, D=±0.5nH

#### SHAPE

E = FLAT TOP



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### 0603HM Series (2.2 ~ 470nH)

| Part Number    | Inductance nH  | Percent Tolerance | Q Min       | SRF Min MHz | RDC Max Ohms | IDC Max mA |
|----------------|----------------|-------------------|-------------|-------------|--------------|------------|
| 0603HM-2N2E_TS | 2.2 @ 100MHz   | D                 | 16 @ 250MHz | 6000        | 0.049        | 700        |
| 0603HM-3N6E_TS | 3.6 @ 100MHz   | C,D               | 25 @ 250MHz | 6000        | 0.059        | 850        |
| 0603HM-3N9E_TS | 3.9 @ 100MHz   | C,D               | 35 @ 250MHz | 6000        | 0.059        | 850        |
| 0603HM-4N3E_TS | 4.3 @ 100MHz   | C,D               | 35 @ 250MHz | 6000        | 0.059        | 850        |
| 0603HM-4N7E_TS | 4.7 @ 100MHz   | C,D               | 35 @ 250MHz | 6000        | 0.059        | 850        |
| 0603HM-5N6E_TS | 5.6 @ 100MHz   | C,D               | 35 @ 250MHz | 6000        | 0.082        | 750        |
| 0603HM-6N2E_TS | 6.2 @ 100MHz   | C,D               | 35 @ 250MHz | 6000        | 0.082        | 750        |
| 0603HM-6N8E_TS | 6.8 @ 100MHz   | C,D               | 35 @ 250MHz | 6000        | 0.082        | 750        |
| 0603HM-7N5E_TS | 7.5 @ 100MHz   | C,D               | 35 @ 250MHz | 6000        | 0.082        | 750        |
| 0603HM-8N2E_TS | 8.2 @ 100MHz   | C,D               | 35 @ 250MHz | 6000        | 0.110        | 650        |
| 0603HM-8N7E_TS | 8.7 @ 100MHz   | C,D               | 35 @ 250MHz | 6000        | 0.110        | 650        |
| 0603HM-9N1E_TS | 9.1 @ 100MHz   | C,D               | 35 @ 250MHz | 6000        | 0.110        | 650        |
| 0603HM-9N5E_TS | 9.5 @ 100MHz   | C,D               | 35 @ 250MHz | 6000        | 0.110        | 650        |
| 0603HM-100E_TS | 10.0 @ 100MHz  | 10,5,3,2          | 35 @ 250MHz | 6000        | 0.110        | 650        |
| 0603HM-110E_TS | 11.0 @ 100MHz  | 10,5,3,2          | 35 @ 250MHz | 6000        | 0.110        | 650        |
| 0603HM-120E_TS | 12.0 @ 100MHz  | 10,5,3,2          | 35 @ 250MHz | 6000        | 0.130        | 600        |
| 0603HM-130E_TS | 13.0 @ 100MHz  | 10,5,3,2          | 35 @ 250MHz | 6000        | 0.130        | 600        |
| 0603HM-150E_TS | 15.0 @ 100MHz  | 10,5,3,2          | 40 @ 250MHz | 6000        | 0.130        | 600        |
| 0603HM-160E_TS | 16.0 @ 100MHz  | 10,5,3,2          | 40 @ 250MHz | 5500        | 0.160        | 550        |
| 0603HM-180E_TS | 18.0 @ 100MHz  | 10,5,3,2          | 40 @ 250MHz | 5500        | 0.160        | 550        |
| 0603HM-200E_TS | 20.0 @ 100MHz  | 10,5,3,2          | 40 @ 250MHz | 4900        | 0.160        | 550        |
| 0603HM-220E_TS | 22.0 @ 100MHz  | 10,5,3,2          | 40 @ 250MHz | 4600        | 0.170        | 500        |
| 0603HM-240E_TS | 24.0 @ 100MHz  | 10,5,3,2          | 40 @ 250MHz | 3800        | 0.210        | 500        |
| 0603HM-270E_TS | 27.0 @ 100MHz  | 10,5,3,2          | 40 @ 250MHz | 3700        | 0.210        | 440        |
| 0603HM-300E_TS | 30.0 @ 100MHz  | 10,5,3,2          | 40 @ 250MHz | 3300        | 0.230        | 420        |
| 0603HM-330E_TS | 33.0 @ 100MHz  | 10,5,3,2          | 40 @ 250MHz | 3200        | 0.230        | 420        |
| 0603HM-360E_TS | 36.0 @ 100MHz  | 10,5,3,2          | 40 @ 250MHz | 2900        | 0.260        | 400        |
| 0603HM-390E_TS | 39.0 @ 100MHz  | 10,5,3,2          | 40 @ 250MHz | 2800        | 0.260        | 400        |
| 0603HM-430E_TS | 43.0 @ 100MHz  | 10,5,3,2          | 40 @ 200MHz | 2700        | 0.290        | 380        |
| 0603HM-470E_TS | 47.0 @ 100MHz  | 10,5,3,2          | 38 @ 200MHz | 2600        | 0.290        | 380        |
| 0603HM-510E_TS | 51.0 @ 100MHz  | 10,5,3,2          | 38 @ 200MHz | 2500        | 0.330        | 370        |
| 0603HM-560E_TS | 56.0 @ 100MHz  | 10,5,3,2          | 38 @ 200MHz | 2400        | 0.350        | 360        |
| 0603HM-620E_TS | 62.0 @ 100MHz  | 10,5,3,2          | 38 @ 200MHz | 2300        | 0.510        | 280        |
| 0603HM-680E_TS | 68.0 @ 100MHz  | 10,5,3,2          | 38 @ 200MHz | 2200        | 0.380        | 340        |
| 0603HM-720E_TS | 72.0 @ 100MHz  | 10,5,3,2          | 34 @ 150MHz | 2100        | 0.560        | 270        |
| 0603HM-750E_TS | 75.0 @ 100MHz  | 10,5,3,2          | 34 @ 150MHz | 2050        | 0.560        | 270        |
| 0603HM-820E_TS | 82.0 @ 100MHz  | 10,5,3,2          | 34 @ 150MHz | 2000        | 0.600        | 250        |
| 0603HM-910E_TS | 91.0 @ 100MHz  | 10,5,3,2          | 34 @ 150MHz | 1900        | 0.640        | 230        |
| 0603HM-101E_TS | 100.0 @ 100MHz | 10,5,3,2          | 34 @ 150MHz | 1800        | 0.680        | 220        |
| 0603HM-111E_TS | 110.0 @ 100MHz | 10,5,3,2          | 32 @ 150MHz | 1700        | 1.200        | 200        |
| 0603HM-121E_TS | 120.0 @ 100MHz | 10,5,3,2          | 32 @ 150MHz | 1600        | 1.300        | 180        |
| 0603HM-131E_TS | 130.0 @ 100MHz | 10,5,3,2          | 32 @ 150MHz | 1450        | 1.400        | 170        |
| 0603HM-151E_TS | 150.0 @ 100MHz | 10,5,3,2          | 32 @ 150MHz | 1400        | 1.500        | 160        |
| 0603HM-161E_TS | 160.0 @ 100MHz | 10,5,3,2          | 32 @ 150MHz | 1350        | 2.100        | 150        |
| 0603HM-181E_TS | 180.0 @ 100MHz | 10,5,3,2          | 25 @ 100MHz | 1300        | 2.200        | 140        |
| 0603HM-201E_TS | 200.0 @ 100MHz | 10,5,3,2          | 25 @ 100MHz | 1250        | 2.400        | 120        |
| 0603HM-221E_TS | 220.0 @ 100MHz | 10,5,3,2          | 25 @ 100MHz | 1200        | 2.500        | 120        |
| 0603HM-271E_TS | 270.0 @ 100MHz | 10,5,3,2          | 30 @ 100MHz | 960         | 3.400        | 110        |
| 0603HM-331E_TS | 330.0 @ 100MHz | 10,5,3,2          | 30 @ 100MHz | 800         | 5.500        | 85         |
| 0603HM-391E_TS | 390.0 @ 100MHz | 10,5,3,2          | 30 @ 100MHz | 800         | 6.200        | 80         |
| 0603HM-471E_TS | 470.0 @ 100MHz | 10,5,3,2          | 30 @ 100MHz | 700         | 7.000        | 75         |

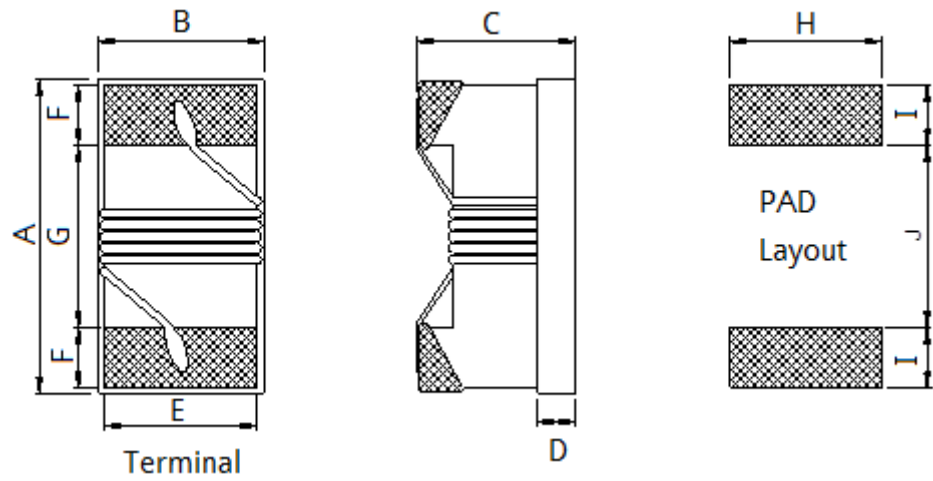
Working Temperature Range : - 55 °C ~ +125 °C



# WIRE-WOUND CHIP INDUCTOR – CERAMIC / 0603 (1608)

## 0603HM Series Shape Dimension

### Shape & Dimension



|      | A     |       | B     |       | C     |       | D     | E     | F     | G     | H     | I     | J     |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|      | Min   | Max.  | Min   | Max.  | Min   | Max.  |       |       |       |       |       |       |       |
| Inch | 0.055 | 0.070 | 0.031 | 0.045 | 0.024 | 0.039 | 0.014 | 0.030 | 0.011 | 0.040 | 0.040 | 0.027 | 0.028 |
| mm   | 1.40  | 1.80  | 0.80  | 1.15  | 0.60  | 1.00  | 0.35  | 0.77  | 0.30  | 1.02  | 1.02  | 0.69  | 0.70  |

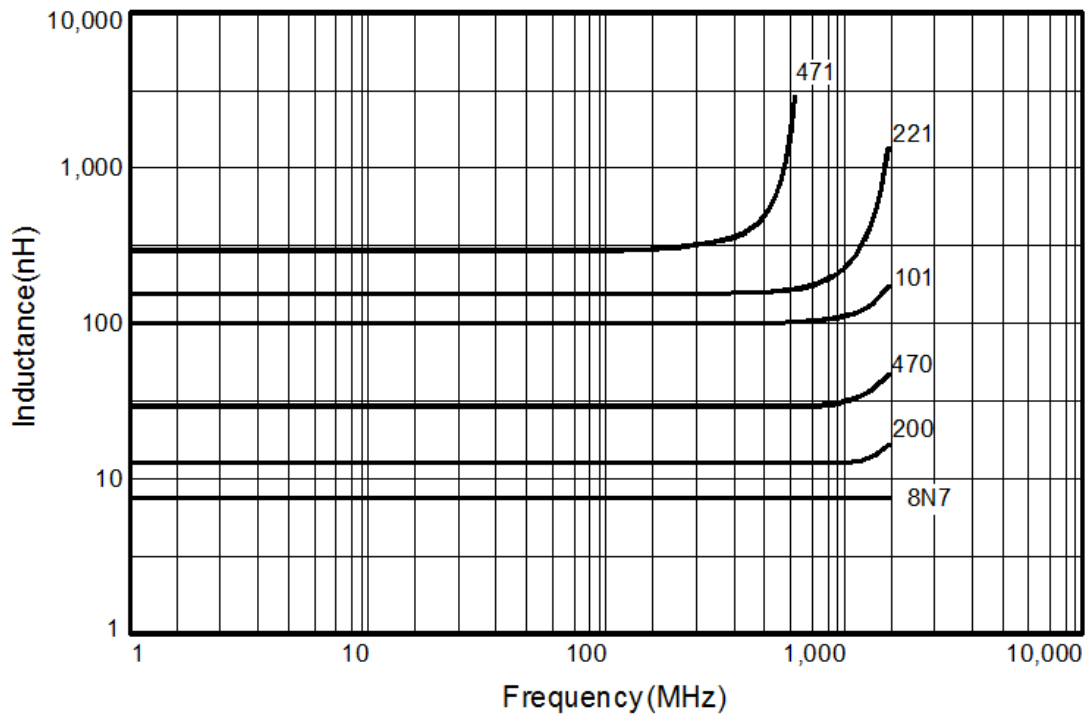
Parts/Reel: 7" 4,000PCS  
Tape Width: 8mm



# WIRE-WOUND CHIP INDUCTOR – CERAMIC / 0603 (1608)

## 0603HM Series Typical Electrical Characteristics

TYPICAL L vs FREQUENCY



TYPICAL Q vs FREQUENCY

