



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

### 0603HP Series Part Numbering

#### Part Numbering (Example)

( Ex. )     **0603**   **H**   **P** - **4N3**   **E**   **G**   **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.

#### TERMINAL TYPE/MATERIAL.

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

#### INDUCTANCE TOLERANCE

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

#### SHAPE

E = FLAT TOP



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

### 0603HP Series (1.8 ~ 390nH)

| Part Number    | Inductance nH  | Percent Tolerance | Q Min       | SRF Min GHz | RDC Max Ohms | IDC Max mA |
|----------------|----------------|-------------------|-------------|-------------|--------------|------------|
| 0603HP-1N8E_TS | 1.8 @ 250MHz   | 10,5,C,D          | 23 @ 250MHz | 16.00       | 0.033        | 2100       |
| 0603HP-2N2E_TS | 2.2 @ 250MHz   | 10,5,C,D          | 13 @ 250MHz | 15.00       | 0.180        | 900        |
| 0603HP-3N3E_TS | 3.3 @ 250MHz   | 10,5,3,C,D        | 32 @ 250MHz | 9.60        | 0.024        | 1900       |
| 0603HP-3N6E_TS | 3.6 @ 250MHz   | 10,5,3,C,D        | 40 @ 250MHz | 9.70        | 0.031        | 1900       |
| 0603HP-3N9E_TS | 3.9 @ 250MHz   | 10,5,3,C,D        | 35 @ 250MHz | 7.50        | 0.039        | 1600       |
| 0603HP-4N3E_TS | 4.3 @ 250MHz   | 10,5,3,C,D        | 30 @ 250MHz | 7.50        | 0.080        | 1300       |
| 0603HP-4N7E_TS | 4.7 @ 250MHz   | 10,5,3,C,D        | 26 @ 250MHz | 7.90        | 0.100        | 1100       |
| 0603HP-5N6E_TS | 5.6 @ 250MHz   | 10,5,3,2          | 48 @ 250MHz | 6.60        | 0.036        | 1700       |
| 0603HP-6N2E_TS | 6.2 @ 250MHz   | 10,5,3,2          | 49 @ 250MHz | 6.00        | 0.036        | 1700       |
| 0603HP-6N8E_TS | 6.8 @ 250MHz   | 10,5,3,2          | 42 @ 250MHz | 5.80        | 0.042        | 1400       |
| 0603HP-7N2E_TS | 7.2 @ 250MHz   | 10,5,3,2          | 48 @ 250MHz | 5.40        | 0.052        | 1400       |
| 0603HP-7N5E_TS | 7.5 @ 250MHz   | 10,5,3,2          | 41 @ 250MHz | 5.30        | 0.080        | 1300       |
| 0603HP-8N2E_TS | 8.2 @ 250MHz   | 10,5,3,2          | 46 @ 250MHz | 5.90        | 0.054        | 1400       |
| 0603HP-8N7E_TS | 8.7 @ 250MHz   | 10,5,3,2          | 46 @ 250MHz | 5.50        | 0.054        | 1400       |
| 0603HP-9N1E_TS | 9.1 @ 250MHz   | 10,5,3,2          | 40 @ 250MHz | 5.10        | 0.054        | 1400       |
| 0603HP-9N5E_TS | 9.5 @ 250MHz   | 10,5,3,2          | 49 @ 250MHz | 4.90        | 0.054        | 1400       |
| 0603HP-100E_TS | 10.0 @ 250MHz  | 10,5,3,2          | 49 @ 250MHz | 4.30        | 0.054        | 1400       |
| 0603HP-110E_TS | 11.0 @ 250MHz  | 10,5,3,2          | 41 @ 250MHz | 4.10        | 0.054        | 1400       |
| 0603HP-120E_TS | 12.0 @ 250MHz  | 10,5,3,2          | 37 @ 250MHz | 4.10        | 0.110        | 1000       |
| 0603HP-150E_TS | 15.0 @ 250MHz  | 10,5,3,2          | 48 @ 250MHz | 3.60        | 0.078        | 1200       |
| 0603HP-160E_TS | 16.0 @ 250MHz  | 10,5,3,2          | 45 @ 250MHz | 3.50        | 0.085        | 1100       |
| 0603HP-180E_TS | 18.0 @ 250MHz  | 10,5,3,2          | 41 @ 250MHz | 3.30        | 0.078        | 1200       |
| 0603HP-220E_TS | 22.0 @ 250MHz  | 10,5,3,2          | 44 @ 250MHz | 3.15        | 0.140        | 850        |
| 0603HP-230E_TS | 23.0 @ 250MHz  | 10,5,3,2          | 40 @ 250MHz | 3.00        | 0.180        | 850        |
| 0603HP-240E_TS | 24.0 @ 250MHz  | 10,5,3,2          | 42 @ 250MHz | 2.95        | 0.085        | 1100       |
| 0603HP-270E_TS | 27.0 @ 250MHz  | 10,5,3,2          | 44 @ 250MHz | 2.80        | 0.150        | 780        |
| 0603HP-300E_TS | 30.0 @ 250MHz  | 10,5,3,2          | 49 @ 250MHz | 2.80        | 0.130        | 920        |
| 0603HP-330E_TS | 33.0 @ 250MHz  | 10,5,3,2          | 45 @ 250MHz | 2.70        | 0.190        | 680        |
| 0603HP-360E_TS | 36.0 @ 250MHz  | 10,5,3,2          | 44 @ 250MHz | 2.50        | 0.225        | 720        |
| 0603HP-390E_TS | 39.0 @ 250MHz  | 10,5,3,2          | 48 @ 250MHz | 2.45        | 0.190        | 680        |
| 0603HP-430E_TS | 43.0 @ 250MHz  | 10,5,3,2          | 45 @ 250MHz | 2.45        | 0.170        | 810        |
| 0603HP-470E_TS | 47.0 @ 200MHz  | 10,5,3,2          | 47 @ 250MHz | 2.30        | 0.240        | 680        |
| 0603HP-510E_TS | 51.0 @ 200MHz  | 10,5,3,2          | 49 @ 250MHz | 2.30        | 0.280        | 660        |
| 0603HP-560E_TS | 56.0 @ 200MHz  | 10,5,3,2          | 50 @ 250MHz | 2.20        | 0.300        | 610        |
| 0603HP-680E_TS | 68.0 @ 200MHz  | 10,5,3,2          | 46 @ 250MHz | 2.00        | 0.330        | 600        |
| 0603HP-720E_TS | 72.0 @ 150MHz  | 10,5,3,2          | 46 @ 250MHz | 1.90        | 0.420        | 550        |
| 0603HP-750E_TS | 75.0 @ 150MHz  | 10,5,3,2          | 46 @ 250MHz | 1.90        | 0.520        | 500        |
| 0603HP-820E_TS | 82.0 @ 150MHz  | 10,5,3,2          | 45 @ 250MHz | 1.80        | 0.460        | 510        |
| 0603HP-910E_TS | 91.0 @ 150MHz  | 10,5,3,2          | 45 @ 250MHz | 1.65        | 0.580        | 440        |
| 0603HP-101E_TS | 100.0 @ 150MHz | 10,5,3,2          | 49 @ 250MHz | 1.70        | 0.540        | 470        |
| 0603HP-111E_TS | 110.0 @ 150MHz | 10,5,3,2          | 47 @ 250MHz | 1.60        | 0.580        | 440        |
| 0603HP-121E_TS | 120.0 @ 150MHz | 10,5,3,2          | 47 @ 250MHz | 1.55        | 0.720        | 420        |
| 0603HP-151E_TS | 150.0 @ 150MHz | 10,5,3,2          | 47 @ 250MHz | 1.35        | 1.100        | 390        |
| 0603HP-181E_TS | 180.0 @ 100MHz | 10,5,3,2          | 48 @ 250MHz | 1.30        | 1.500        | 310        |
| 0603HP-201E_TS | 200.0 @ 100MHz | 10,5,3,2          | 47 @ 250MHz | 1.25        | 2.000        | 280        |
| 0603HP-211E_TS | 210.0 @ 100MHz | 10,5,3,2          | 48 @ 250MHz | 1.20        | 2.000        | 280        |
| 0603HP-221E_TS | 220.0 @ 100MHz | 10,5,3,2          | 47 @ 250MHz | 1.10        | 2.000        | 280        |
| 0603HP-251E_TS | 250.0 @ 100MHz | 10,5,3,2          | 45 @ 250MHz | 1.05        | 3.000        | 240        |
| 0603HP-271E_TS | 270.0 @ 100MHz | 10,5,3,2          | 46 @ 250MHz | 1.05        | 2.250        | 260        |
| 0603HP-301E_TS | 300.0 @ 100MHz | 10,5,3,2          | 47 @ 250MHz | 0.99        | 2.800        | 220        |

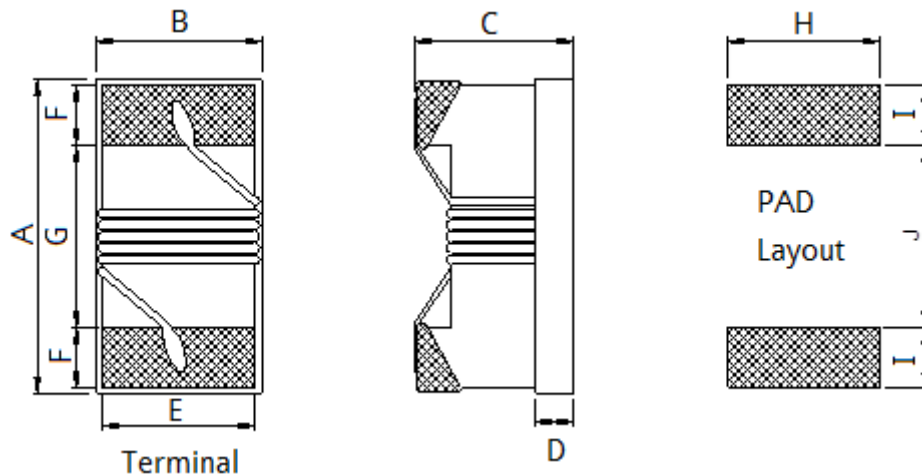
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### 0603HP Series (1.8 ~ 390nH)

| Part Number    | Inductance nH  | Percent Tolerance | Q Min       | SRF Min GHz | RDC Max Ohms | IDC Max mA |
|----------------|----------------|-------------------|-------------|-------------|--------------|------------|
| 0603HP-331E_TS | 330.0 @ 100MHz | 10,5,3,2          | 46 @ 250MHz | 0.93        | 3.600        | 180        |
| 0603HP-361E_TS | 360.0 @ 100MHz | 10,5,3,2          | 47 @ 250MHz | 0.93        | 4.000        | 170        |
| 0603HP-391E_TS | 390.0 @ 100MHz | 10,5,3,2          | 47 @ 250MHz | 0.88        | 4.000        | 170        |

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

## 2.2 Shape & Dimension



|      | A     |       | B     |       | C     |       | D<br>Ref. | 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 | 0.04 | 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  | 0.72  |

Parts/Reel: 7" 4,000PCS

Tape Width: 8mm

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

## 0603HP Series Typical Electrical Characteristics

