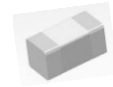


Multilayer RF Inductors --- HFM0603 Series

Features

- Compact design.
- High self-resonant frequency
- High reliability.
- RoHS compliant.
- Operating temperature range $-55^{\circ}\text{C} \sim 125^{\circ}\text{C}$ (Including self - temperature rise).



Applications

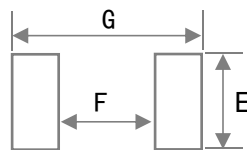
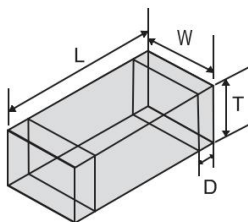
- Communications, Computer, Remote control, etc.
- Mobile phones .
- Filters
- Navigation systems, Bluetooth, WLAN

Production identification

HFM 0603 - 2N2 J
 ① ② ③ ④

- ① Series name
- ② Size: $0.6\text{mm} \times 0.3\text{mm} \times 0.3\text{mm}$
- ③ Inductance: 2.2nH
- ④ Tolerance: $G = \pm 2\%$, $H = \pm 3\%$, $J = \pm 5\%$, $K = \pm 10\%$,
 $B = \pm 0.1\text{nH}$, $C = \pm 0.2\text{nH}$, $S = \pm 0.3\text{nH}$, $D = \pm 0.5\text{nH}$

Series Shape and Dimensions (Unit: mm)



| Series | L(mm) | W(mm) | T(mm) | D(mm) | E(mm) | F(mm) | G(mm) | SPQ (PCS) |
|---------|----------------|----------------|----------------|-----------------|----------|---------|----------|-----------|
| HFM0603 | 0.6 ± 0.03 | 0.3 ± 0.03 | 0.3 ± 0.03 | 0.15 ± 0.05 | 0.3 Typ. | 0.3 Typ | 0.8 Typ. | 15000 |

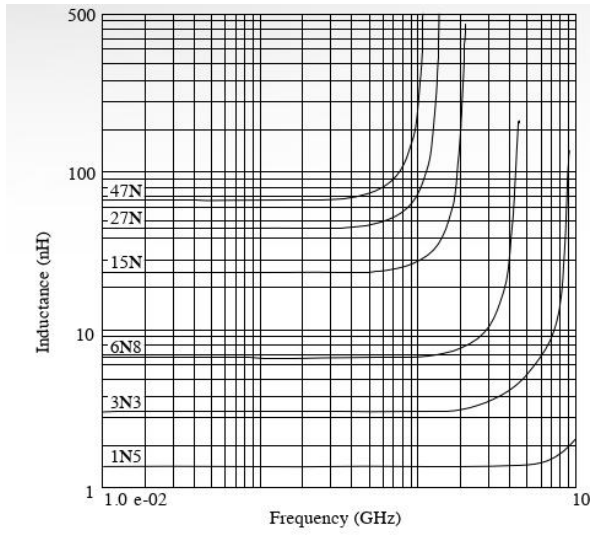
Multilayer RF Inductors---HFM0603- Series



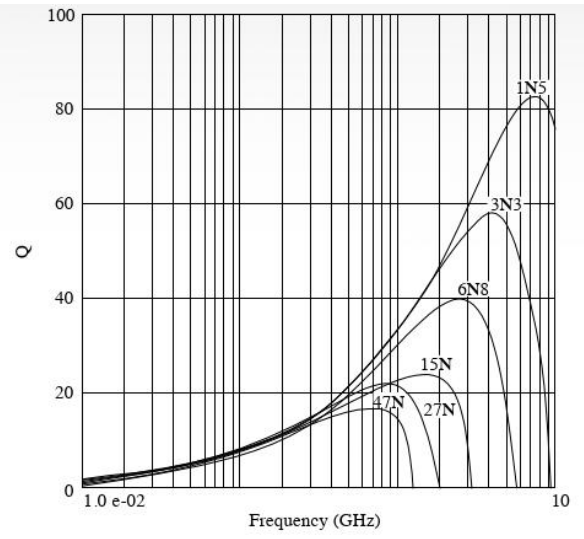
HFM0603 Electrical Characteristics

| Part Number | Inductance (nH) | Tolerance (%) | Q Value (Min) | Test Freq. L/Q (MHz) | SRF Min. (GHz) | DCR Max(Ω) | Rated Current Max (mA) |
|--------------|-----------------|---------------|---------------|----------------------|----------------|------------|------------------------|
| HFM0603-1N0_ | 1.0 | ±0.3nH | 4 | 100 | >10 | 0.11 | 470 |
| HFM0603-1N2_ | 1.2 | ±0.3nH | 4 | 100 | >10 | 0.12 | 450 |
| HFM0603-1N5_ | 1.5 | ±0.3nH | 4 | 100 | >10 | 0.13 | 430 |
| HFM0603-1N8_ | 1.8 | ±0.3nH | 4 | 100 | >10 | 0.16 | 390 |
| HFM0603-2N0_ | 2.0 | ±0.3nH | 4 | 100 | >10 | 0.17 | 380 |
| HFM0603-2N2_ | 2.2 | ±0.3nH | 4 | 100 | 8.8 | 0.19 | 360 |
| HFM0603-2N4_ | 2.4 | ±0.3nH | 4 | 100 | 8.3 | 0.20 | 350 |
| HFM0603-2N7_ | 2.7 | ±0.3nH | 4 | 100 | 7.7 | 0.21 | 340 |
| HFM0603-3N0_ | 3.0 | ±0.3nH | 4 | 100 | 7.2 | 0.22 | 330 |
| HFM0603-3N3_ | 3.3 | ±0.3nH | 4 | 100 | 6.7 | 0.23 | 320 |
| HFM0603-3N6_ | 3.6 | ±0.3nH | 4 | 100 | 6.4 | 0.25 | 310 |
| HFM0603-3N9_ | 3.9 | ±0.3nH | 4 | 100 | 6.0 | 0.27 | 300 |
| HFM0603-4N3_ | 4.3 | ±0.3nH | 4 | 100 | 5.7 | 0.30 | 280 |
| HFM0603-4N7_ | 4.7 | ±0.3nH | 4 | 100 | 5.3 | 0.30 | 280 |
| HFM0603-5N1_ | 5.1 | ±0.3nH | 4 | 100 | 5.0 | 0.33 | 270 |
| HFM0603-5N6_ | 5.6 | ±0.3nH | 4 | 100 | 4.6 | 0.36 | 260 |
| HFM0603-6N2_ | 6.2 | ±0.3nH | 4 | 100 | 4.2 | 0.38 | 250 |
| HFM0603-6N8_ | 6.8 | 5 | 4 | 100 | 3.9 | 0.39 | 250 |
| HFM0603-7N5_ | 7.5 | 5 | 4 | 100 | 3.6 | 0.41 | 240 |
| HFM0603-8N2_ | 8.2 | 5 | 4 | 100 | 3.4 | 0.45 | 230 |
| HFM0603-9N1_ | 9.1 | 5 | 4 | 100 | 3.2 | 0.48 | 220 |
| HFM0603-10N_ | 10 | 5 | 4 | 100 | 2.9 | 0.51 | 220 |
| HFM0603-12N_ | 12 | 5 | 4 | 100 | 2.7 | 0.68 | 190 |
| HFM0603-15N_ | 15 | 5 | 4 | 100 | 2.3 | 0.71 | 180 |
| HFM0603-18N_ | 18 | 5 | 4 | 100 | 2.1 | 0.81 | 170 |
| HFM0603-22N_ | 22 | 5 | 4 | 100 | 1.8 | 1.00 | 150 |
| HFM0603-27N_ | 27 | 5 | 4 | 100 | 1.8 | 1.35 | 120 |
| HFM0603-33N_ | 33 | 5 | 4 | 100 | 1.7 | 1.47 | 110 |
| HFM0603-39N_ | 39 | 5 | 4 | 100 | 1.5 | 1.72 | 100 |
| HFM0603-47N_ | 47 | 5 | 4 | 100 | 1.3 | 1.90 | 100 |
| HFM0603-56N_ | 56 | 5 | 4 | 100 | 1.1 | 2.27 | 80 |
| HFM0603-68N_ | 68 | 5 | 4 | 100 | 1.1 | 2.66 | 80 |
| HFM0603-82N_ | 82 | 5 | 4 | 100 | 1.0 | 3.37 | 70 |

Typical Electrical Graphs



Q vs. Frequency



Inductance vs. Frequency

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