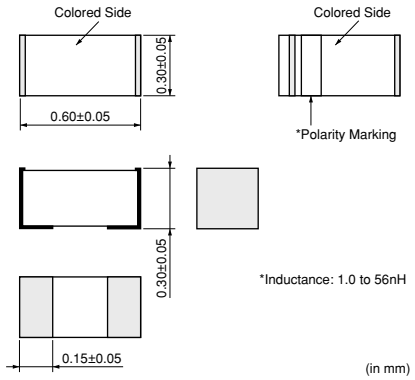
# Chip Inductor (Chip Coil) for High Frequency Film Type

## LQP03T_00 Series (0201 Size)

●Replacement: This product is in production, but LQP03T_02 is strongly recommended for stable supply in the future.

### ■ Dimensions




### ■ Packaging

| Code | Packaging | Minimum Quantity |
|---|---|---|
| D | 180mm Paper Tape | 10000 |
| J | 330mm Paper Tape | 50000 |
| B | Bulk(Bag) | 500 |

### ■ Rated Value (□: packaging code)

| Part Number | Inductance | Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Test Frequency | Self Resonance Frequency (min.) |
|---|---|---|---|---|---|---|---|
| **LQP03TN0N6B00**□ | 0.6nH ±0.1nH | 500MHz | 840mA | 0.08ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN0N6C00**□ | 0.6nH ±0.2nH | 500MHz | 840mA | 0.08ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN0N7B00**□ | 0.7nH ±0.1nH | 500MHz | 820mA | 0.09ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN0N8B00**□ | 0.8nH ±0.1nH | 500MHz | 820mA | 0.09ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN0N8C00**□ | 0.8nH ±0.2nH | 500MHz | 820mA | 0.09ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN0N9B00**□ | 0.9nH ±0.1nH | 500MHz | 800mA | 0.10ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN1N0B00**□ | 1.0nH ±0.1nH | 500MHz | 800mA | 0.10ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN1N0C00**□ | 1.0nH ±0.2nH | 500MHz | 800mA | 0.10ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN1N1B00**□ | 1.1nH ±0.1nH | 500MHz | 560mA | 0.13ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN1N2B00**□ | 1.2nH ±0.1nH | 500MHz | 560mA | 0.13ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN1N2C00**□ | 1.2nH ±0.2nH | 500MHz | 560mA | 0.13ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN1N3B00**□ | 1.3nH ±0.1nH | 500MHz | 560mA | 0.16ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN1N4B00**□ | 1.4nH ±0.1nH | 500MHz | 560mA | 0.16ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN1N5B00**□ | 1.5nH ±0.1nH | 500MHz | 560mA | 0.16ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN1N5C00**□ | 1.5nH ±0.2nH | 500MHz | 560mA | 0.16ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN1N6B00**□ | 1.6nH ±0.1nH | 500MHz | 560mA | 0.16ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN1N7B00**□ | 1.7nH ±0.1nH | 500MHz | 560mA | 0.16ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN1N8B00**□ | 1.8nH ±0.1nH | 500MHz | 560mA | 0.16ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN1N8C00**□ | 1.8nH ±0.2nH | 500MHz | 560mA | 0.16ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN1N9B00**□ | 1.9nH ±0.1nH | 500MHz | 440mA | 0.18ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN2N0B00**□ | 2.0nH ±0.1nH | 500MHz | 440mA | 0.18ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN2N1B00**□ | 2.1nH ±0.1nH | 500MHz | 440mA | 0.18ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN2N2B00**□ | 2.2nH ±0.1nH | 500MHz | 440mA | 0.18ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN2N2C00**□ | 2.2nH ±0.2nH | 500MHz | 440mA | 0.18ohm | 13 | 500MHz | 6000MHz |

Operating Temperature Range (Self-temperature rise is not included): -40 to +85°C
Only for reflow soldering.

Continued on the following page.

●This data sheet is applied for CHIP INDUCTORS (CHIP COILS) used for General Electronics equipment for your design.

**⚠Note:**

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## Data Sheet



Continued from the preceding page.

| Part Number | Inductance | Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Test Frequency | Self Resonance Frequency (min.) |
|---|---|---|---|---|---|---|---|
| **LQP03TN2N3B00□** | 2.3nH ±0.1nH | 500MHz | 440mA | 0.21ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN2N4B00□** | 2.4nH ±0.1nH | 500MHz | 440mA | 0.21ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN2N5B00□** | 2.5nH ±0.1nH | 500MHz | 440mA | 0.21ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN2N6B00□** | 2.6nH ±0.1nH | 500MHz | 440mA | 0.21ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN2N7B00□** | 2.7nH ±0.1nH | 500MHz | 440mA | 0.21ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN2N7C00□** | 2.7nH ±0.2nH | 500MHz | 440mA | 0.21ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN2N8B00□** | 2.8nH ±0.1nH | 500MHz | 440mA | 0.21ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN2N9B00□** | 2.9nH ±0.1nH | 500MHz | 440mA | 0.21ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN3N0B00□** | 3.0nH ±0.1nH | 500MHz | 380mA | 0.30ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN3N1B00□** | 3.1nH ±0.1nH | 500MHz | 380mA | 0.30ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN3N2B00□** | 3.2nH ±0.1nH | 500MHz | 380mA | 0.30ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN3N3B00□** | 3.3nH ±0.1nH | 500MHz | 380mA | 0.30ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN3N3C00□** | 3.3nH ±0.2nH | 500MHz | 380mA | 0.30ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN3N4B00□** | 3.4nH ±0.1nH | 500MHz | 380mA | 0.30ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN3N5B00□** | 3.5nH ±0.1nH | 500MHz | 380mA | 0.30ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN3N6B00□** | 3.6nH ±0.1nH | 500MHz | 340mA | 0.45ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN3N7B00□** | 3.7nH ±0.1nH | 500MHz | 340mA | 0.45ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN3N8B00□** | 3.8nH ±0.1nH | 500MHz | 340mA | 0.45ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN3N9B00□** | 3.9nH ±0.1nH | 500MHz | 340mA | 0.45ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN3N9C00□** | 3.9nH ±0.2nH | 500MHz | 340mA | 0.45ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN4N3H00□** | 4.3nH ±3% | 500MHz | 320mA | 0.55ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN4N7H00□** | 4.7nH ±3% | 500MHz | 320mA | 0.55ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN4N7J00□** | 4.7nH ±5% | 500MHz | 320mA | 0.55ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN5N1H00□** | 5.1nH ±3% | 500MHz | 280mA | 0.68ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN5N6H00□** | 5.6nH ±3% | 500MHz | 280mA | 0.68ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN5N6J00□** | 5.6nH ±5% | 500MHz | 280mA | 0.68ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN6N2H00□** | 6.2nH ±3% | 500MHz | 260mA | 0.75ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN6N8H00□** | 6.8nH ±3% | 500MHz | 260mA | 0.75ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN6N8J00□** | 6.8nH ±5% | 500MHz | 260mA | 0.75ohm | 13 | 500MHz | 6000MHz |
| **LQP03TN7N5H00□** | 7.5nH ±3% | 500MHz | 220mA | 0.86ohm | 13 | 500MHz | 5500MHz |
| **LQP03TN8N2H00□** | 8.2nH ±3% | 500MHz | 220mA | 0.86ohm | 13 | 500MHz | 5500MHz |
| **LQP03TN8N2J00□** | 8.2nH ±5% | 500MHz | 220mA | 0.86ohm | 13 | 500MHz | 5500MHz |
| **LQP03TN9N1H00□** | 9.1nH ±3% | 500MHz | 200mA | 1.10ohm | 13 | 500MHz | 4500MHz |
| **LQP03TN10NH00□** | 10nH ±3% | 500MHz | 200mA | 1.10ohm | 13 | 500MHz | 4500MHz |
| **LQP03TN10NJ00□** | 10nH ±5% | 500MHz | 200mA | 1.10ohm | 13 | 500MHz | 4500MHz |
| **LQP03TN12NH00□** | 12nH ±3% | 500MHz | 180mA | 1.25ohm | 11 | 500MHz | 3700MHz |
| **LQP03TN12NJ00□** | 12nH ±5% | 500MHz | 180mA | 1.25ohm | 11 | 500MHz | 3700MHz |
| **LQP03TN15NH00□** | 15nH ±3% | 500MHz | 180mA | 1.40ohm | 11 | 500MHz | 3300MHz |
| **LQP03TN15NJ00□** | 15nH ±5% | 500MHz | 180mA | 1.40ohm | 11 | 500MHz | 3300MHz |
| **LQP03TN18NH00□** | 18nH ±3% | 500MHz | 160mA | 1.60ohm | 11 | 500MHz | 3100MHz |
| **LQP03TN18NJ00□** | 18nH ±5% | 500MHz | 160mA | 1.60ohm | 11 | 500MHz | 3100MHz |
| **LQP03TN22NH00□** | 22nH ±3% | 500MHz | 140mA | 2.55ohm | 11 | 500MHz | 2800MHz |
| **LQP03TN22NJ00□** | 22nH ±5% | 500MHz | 140mA | 2.55ohm | 11 | 500MHz | 2800MHz |
| **LQP03TN27NH00□** | 27nH ±3% | 500MHz | 140mA | 2.90ohm | 11 | 500MHz | 2500MHz |
| **LQP03TN27NJ00□** | 27nH ±5% | 500MHz | 140mA | 2.90ohm | 11 | 500MHz | 2500MHz |

Operating Temperature Range (Self-temperature rise is not included): -40 to +85°C
Only for reflow soldering.

Continued on the following page.

●This data sheet is applied for CHIP INDUCTORS (CHIP COILS) used for General Electronics equipment for your design.

**⚠Note:**

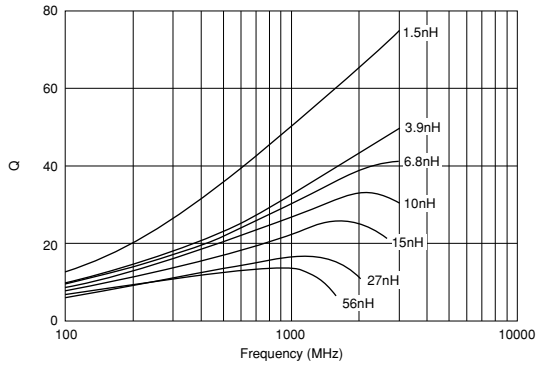
1. **This datasheet is downloaded from the website of Murata Manufacturing co., ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.**
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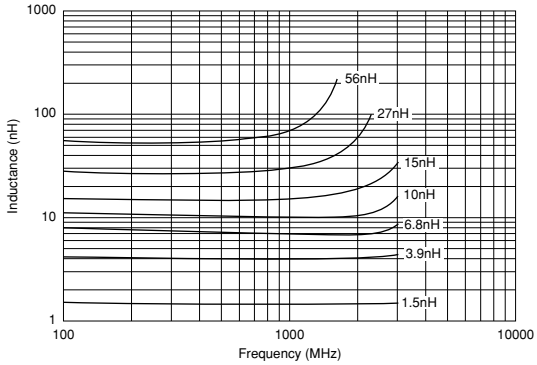
| Part Number | Inductance | Test Frequency | Rated Current | Max. of DC Resistance | Q (min.) | Test Frequency | Self Resonance Frequency (min.) |
|---|---|---|---|---|---|---|---|
| **LQP03TN33NJ00□** | 33nH ±5% | 300MHz | 120mA | 2.95ohm | 8 | 300MHz | 2000MHz |
| **LQP03TN39NJ00□** | 39nH ±5% | 300MHz | 120mA | 3.35ohm | 8 | 300MHz | 1800MHz |
| **LQP03TN47NJ00□** | 47nH ±5% | 300MHz | 100mA | 3.60ohm | 8 | 300MHz | 1600MHz |
| **LQP03TN56NJ00□** | 56nH ±5% | 300MHz | 100mA | 4.30ohm | 8 | 300MHz | 1400MHz |

Operating Temperature Range (Self-temperature rise is not included): -40 to +85°C
Only for reflow soldering.

## ■ Q-Frequency Characteristics (Typ.)




## ■ Inductance-Frequency Characteristics (Typ.)




## ■ ⚠Caution/Notice

**⚠Caution (Rating)**

Do not use products beyond the rated current as this may create excessive heat.

**Notice**

Solderability of Tin plating termination chip might be deteriorated when low temperature soldering profile where peak solder temperature is below the Tin melting point is used. Please confirm the solderability of Tin plating termination chip before use.

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