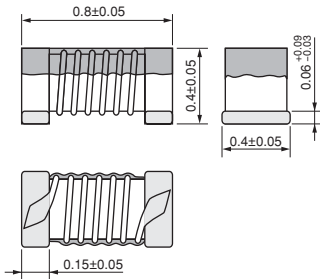


LQW04AN_00 Series 0804/03015 (mm/inch)



■ Dimensions



(in mm)

■ Packaging

| Code | Packaging | Minimum Quantity |
|------|---------------------|------------------|
| D | ø180mm Paper taping | 10000 |
| B | Packing in bulk | 500 |

■ Rated Value (□: packaging code)

| Part Number | Inductance | Inductance test frequency | Rated current | Max. of DC resistance | Q (min.) | Q test frequency | Self resonance frequency (min.) |
|----------------|--------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|
| LQW04AN1N1C00□ | 1.1nH ±0.2nH | 100MHz | 990mA | 0.03Ω | 15 | 250MHz | 20.0GHz |
| LQW04AN1N1D00□ | 1.1nH ±0.5nH | 100MHz | 990mA | 0.03Ω | 15 | 250MHz | 20.0GHz |
| LQW04AN1N8C00□ | 1.8nH ±0.2nH | 100MHz | 700mA | 0.06Ω | 15 | 250MHz | 17.0GHz |
| LQW04AN1N8D00□ | 1.8nH ±0.5nH | 100MHz | 700mA | 0.06Ω | 15 | 250MHz | 17.0GHz |
| LQW04AN2N7C00□ | 2.7nH ±0.2nH | 100MHz | 570mA | 0.07Ω | 15 | 250MHz | 15.0GHz |
| LQW04AN2N7D00□ | 2.7nH ±0.5nH | 100MHz | 570mA | 0.07Ω | 15 | 250MHz | 15.0GHz |
| LQW04AN3N0C00□ | 3.0nH ±0.2nH | 100MHz | 620mA | 0.07Ω | 15 | 250MHz | 13.0GHz |
| LQW04AN3N0D00□ | 3.0nH ±0.5nH | 100MHz | 620mA | 0.07Ω | 15 | 250MHz | 13.0GHz |
| LQW04AN3N3C00□ | 3.3nH ±0.2nH | 100MHz | 440mA | 0.14Ω | 10 | 250MHz | 10.0GHz |
| LQW04AN3N3D00□ | 3.3nH ±0.5nH | 100MHz | 440mA | 0.14Ω | 10 | 250MHz | 10.0GHz |
| LQW04AN3N6C00□ | 3.6nH ±0.2nH | 100MHz | 530mA | 0.10Ω | 15 | 250MHz | 13.0GHz |
| LQW04AN3N6D00□ | 3.6nH ±0.5nH | 100MHz | 530mA | 0.10Ω | 15 | 250MHz | 13.0GHz |
| LQW04AN3N9C00□ | 3.9nH ±0.2nH | 100MHz | 530mA | 0.10Ω | 15 | 250MHz | 12.0GHz |
| LQW04AN3N9D00□ | 3.9nH ±0.5nH | 100MHz | 530mA | 0.10Ω | 15 | 250MHz | 12.0GHz |
| LQW04AN4N3C00□ | 4.3nH ±0.2nH | 100MHz | 530mA | 0.10Ω | 15 | 250MHz | 11.0GHz |
| LQW04AN4N3D00□ | 4.3nH ±0.5nH | 100MHz | 530mA | 0.10Ω | 15 | 250MHz | 11.0GHz |
| LQW04AN4N7C00□ | 4.7nH ±0.2nH | 100MHz | 440mA | 0.14Ω | 20 | 250MHz | 10.0GHz |
| LQW04AN4N7D00□ | 4.7nH ±0.5nH | 100MHz | 440mA | 0.14Ω | 20 | 250MHz | 10.0GHz |
| LQW04AN5N1C00□ | 5.1nH ±0.2nH | 100MHz | 470mA | 0.12Ω | 20 | 250MHz | 10.0GHz |
| LQW04AN5N1D00□ | 5.1nH ±0.5nH | 100MHz | 470mA | 0.12Ω | 20 | 250MHz | 10.0GHz |
| LQW04AN5N6C00□ | 5.6nH ±0.2nH | 100MHz | 470mA | 0.12Ω | 20 | 250MHz | 9.0GHz |
| LQW04AN5N6D00□ | 5.6nH ±0.5nH | 100MHz | 470mA | 0.12Ω | 20 | 250MHz | 9.0GHz |
| LQW04AN6N2C00□ | 6.2nH ±0.2nH | 100MHz | 390mA | 0.19Ω | 20 | 250MHz | 9.0GHz |
| LQW04AN6N2D00□ | 6.2nH ±0.5nH | 100MHz | 390mA | 0.19Ω | 20 | 250MHz | 9.0GHz |
| LQW04AN6N8C00□ | 6.8nH ±0.2nH | 100MHz | 440mA | 0.14Ω | 20 | 250MHz | 9.0GHz |
| LQW04AN6N8D00□ | 6.8nH ±0.5nH | 100MHz | 440mA | 0.14Ω | 20 | 250MHz | 9.0GHz |

Operating temperature range (Self-temperature rise is not included): -55~125°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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 Continued from the preceding page.

| Part Number | Inductance | Inductance test frequency | Rated current | Max. of DC resistance | Q (min.) | Q test frequency | Self resonance frequency (min.) |
|----------------|--------------|---------------------------|---------------|-----------------------|----------|------------------|---------------------------------|
| LQW04AN7N5C00□ | 7.5nH ±0.2nH | 100MHz | 440mA | 0.14 Ω | 20 | 250MHz | 8.0GHz |
| LQW04AN7N5D00□ | 7.5nH ±0.5nH | 100MHz | 440mA | 0.14 Ω | 20 | 250MHz | 8.0GHz |
| LQW04AN8N2C00□ | 8.2nH ±0.2nH | 100MHz | 350mA | 0.23 Ω | 20 | 250MHz | 8.0GHz |
| LQW04AN8N2D00□ | 8.2nH ±0.5nH | 100MHz | 350mA | 0.23 Ω | 20 | 250MHz | 8.0GHz |
| LQW04AN9N1C00□ | 9.1nH ±0.2nH | 100MHz | 400mA | 0.16 Ω | 20 | 250MHz | 7.0GHz |
| LQW04AN9N1D00□ | 9.1nH ±0.5nH | 100MHz | 400mA | 0.16 Ω | 20 | 250MHz | 7.0GHz |
| LQW04AN10NH00□ | 10nH ±3% | 100MHz | 330mA | 0.26 Ω | 20 | 250MHz | 7.0GHz |
| LQW04AN10NJ00□ | 10nH ±5% | 100MHz | 330mA | 0.26 Ω | 20 | 250MHz | 7.0GHz |
| LQW04AN11NH00□ | 11nH ±3% | 100MHz | 310mA | 0.28 Ω | 15 | 250MHz | 7.0GHz |
| LQW04AN11NJ00□ | 11nH ±5% | 100MHz | 310mA | 0.28 Ω | 15 | 250MHz | 7.0GHz |
| LQW04AN12NH00□ | 12nH ±3% | 100MHz | 310mA | 0.28 Ω | 15 | 250MHz | 6.0GHz |
| LQW04AN12NJ00□ | 12nH ±5% | 100MHz | 310mA | 0.28 Ω | 15 | 250MHz | 6.0GHz |
| LQW04AN13NH00□ | 13nH ±3% | 100MHz | 280mA | 0.34 Ω | 15 | 250MHz | 6.0GHz |
| LQW04AN13NJ00□ | 13nH ±5% | 100MHz | 280mA | 0.34 Ω | 15 | 250MHz | 6.0GHz |
| LQW04AN15NH00□ | 15nH ±3% | 100MHz | 240mA | 0.48 Ω | 15 | 250MHz | 5.5GHz |
| LQW04AN15NJ00□ | 15nH ±5% | 100MHz | 240mA | 0.48 Ω | 15 | 250MHz | 5.5GHz |
| LQW04AN16NH00□ | 16nH ±3% | 100MHz | 270mA | 0.38 Ω | 15 | 250MHz | 5.5GHz |
| LQW04AN16NJ00□ | 16nH ±5% | 100MHz | 270mA | 0.38 Ω | 15 | 250MHz | 5.5GHz |
| LQW04AN18NH00□ | 18nH ±3% | 100MHz | 220mA | 0.54 Ω | 15 | 250MHz | 5.0GHz |
| LQW04AN18NJ00□ | 18nH ±5% | 100MHz | 220mA | 0.54 Ω | 15 | 250MHz | 5.0GHz |
| LQW04AN19NH00□ | 19nH ±3% | 100MHz | 160mA | 0.73 Ω | 15 | 250MHz | 5.0GHz |
| LQW04AN19NJ00□ | 19nH ±5% | 100MHz | 160mA | 0.73 Ω | 15 | 250MHz | 5.0GHz |
| LQW04AN20NH00□ | 20nH ±3% | 100MHz | 210mA | 0.56 Ω | 15 | 250MHz | 5.0GHz |
| LQW04AN20NJ00□ | 20nH ±5% | 100MHz | 210mA | 0.56 Ω | 15 | 250MHz | 5.0GHz |
| LQW04AN22NH00□ | 22nH ±3% | 100MHz | 200mA | 0.63 Ω | 15 | 250MHz | 5.0GHz |
| LQW04AN22NJ00□ | 22nH ±5% | 100MHz | 200mA | 0.63 Ω | 15 | 250MHz | 5.0GHz |
| LQW04AN23NH00□ | 23nH ±3% | 100MHz | 160mA | 0.95 Ω | 15 | 250MHz | 4.0GHz |
| LQW04AN23NJ00□ | 23nH ±5% | 100MHz | 160mA | 0.95 Ω | 15 | 250MHz | 4.0GHz |
| LQW04AN24NH00□ | 24nH ±3% | 100MHz | 160mA | 0.95 Ω | 15 | 250MHz | 4.0GHz |
| LQW04AN24NJ00□ | 24nH ±5% | 100MHz | 160mA | 0.95 Ω | 15 | 250MHz | 4.0GHz |
| LQW04AN25NH00□ | 25nH ±3% | 100MHz | 160mA | 0.95 Ω | 15 | 250MHz | 4.0GHz |
| LQW04AN25NJ00□ | 25nH ±5% | 100MHz | 160mA | 0.95 Ω | 15 | 250MHz | 4.0GHz |
| LQW04AN27NH00□ | 27nH ±3% | 100MHz | 160mA | 0.95 Ω | 15 | 250MHz | 4.0GHz |
| LQW04AN27NJ00□ | 27nH ±5% | 100MHz | 160mA | 0.95 Ω | 15 | 250MHz | 4.0GHz |
| LQW04AN33NH00□ | 33nH ±3% | 100MHz | 140mA | 1.11 Ω | 15 | 250MHz | 4.0GHz |
| LQW04AN33NJ00□ | 33nH ±5% | 100MHz | 140mA | 1.11 Ω | 15 | 250MHz | 4.0GHz |

Operating temperature range (Self-temperature rise is not included): -55~125°C

Only for reflow soldering.

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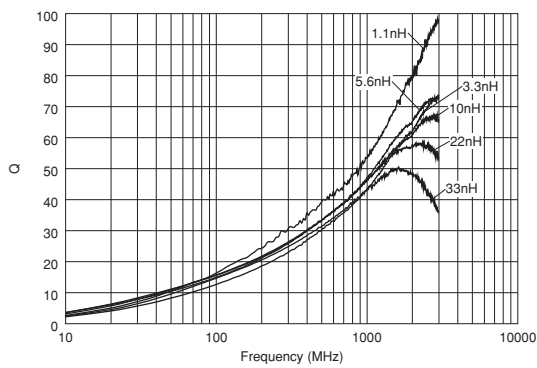
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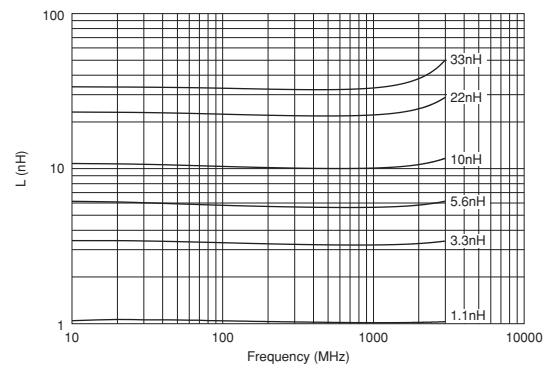
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■ Q-Frequency characteristics (Typ.)



■ 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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