| | Series | Structure | Size Code in inch (in mm) | Inductance Range (H) 0.1n 1n 10n 100n 1µ 10µ 100µ 1m 10m | Rated Current (A) 10m 100m 1 10 100 |
|--------------|--------------------|------------------------------------|------------------------------|---|--|
| | LQG15HN_02 p201 | | 0402 (1005) | 1nH 120nH | 150mA 🗾 1A |
| | LQG15HS_02 p204 | Multilayer Type | 0402 (1005) | 1nH 270nH | 110mA 1A |
| | LQG18HN_00 p208 | | 0603 (1608) | 1.2nH 100nH | 350mA 🥅 1.1A |
| | p289 LQW21HN_00 | Wire Wound Ferrite Core Type | 0805 (2012) | 470nH 💶 2.2µH | 75mA 🗖 160mA |
| | LQP02HQ_02 p210 | | 01005 (0402) | 0.2nH 56nH | 100mA 1A |
| | LQP02TN_02 p214 | | 01005 (0402) | 0.2nH 39nH | 90mA 🔜 320mA |
| | LQP02TQ_02 P218 | | 01005 (0402) | 0.2nH 22nH | 120mA 990mA |
| | LQP03HQ_02 p221 | | 0201 (0603) | 0.6nH | 80mA 1.1A |
| | LQP03PN_02 p225 | Film Type | 0201 (0603) | 2.2nH 🛄 4.7nH | 900mA 🗖 1.4A |
| | LQP03TG_02 p227 | гип туре | 0201 (0603) | .1nH 120nH | 80mA 850mA |
| | LQP03TN_02 p231 | 1 | 0201 (0603) | 0.6nH 270nH | 60mA 850mA |
| | LQP03TQ_02 p235 | | 0201 (0603) | 0.6nH 13nH | 250mA 🔂 1A |
| | LQP15MN_02 p238 | | 0402 (1005) | 1nH 33nH | 60mA 400mA |
| tors | LQP18MN_02 p240 | | 0603 (1608) | 1.3nH 100nH | 50mA 300mA |
| RF Inductors | LQW03AW_00 p242 | | 0201 (0603) | 1nH 15.5nH | 230mA 900mA |
| RF | LQW04AN_00 p244 | | 03015 (0804) | 0.8nH 33nH | 140mA 1.8A |
| | LQW04AN_10 p249 | | 03015 (0804) | 36nH 🗖 56nH | 180mA 200mA |
| | LQW15AN_00 p250 | | 0402 (1005) | 1.5nH 120nH | 110mA 1A |
| | LQW15AN_10 p256 | | 0402 (1005) | 1.3nH8.4nH | 640mA 🗖 1.2A |
| | LQW15AN_80 p258 | | 0402 (1005) | 1.3nH 75nH | 320mA 3.15A |
| | LQW18AN_00 p265 | | 0603 (1608) | 2.2nH 470nH | 75mA 850mA |
| | LQW18AN_10 p268 | Wire Wound | 0603 (1608) | 2.2nH 33nH | 550mA 🗖 1.4A |
| | LQW18AN_80 p270 | Non-Magnetic Core Type | 0603 (1608) | 2.2nH 390nH | 190mA 3.2A |
| | LQW18AS_00 p275 | , , , , , , , , , , , , , , , , , | 0603 (1608) | 1.6nH 390nH | 100mA 700mA |
| | LQW2BAN_00 p278 | | 0805 (2015) | 3.2nH 200nH | 750mA 🧰 3.8A |
| | LQW2BAS_00 p281 | | 0805 (2015) | 2.8nH820nH | 180mA 🗾 800mA |
| | LQW2BHN_03 p283 | | 0805 (2015) | 3.3nH 470nH | 160mA 1.32A |
| | LQW2BHN_13 p285 | | 0805 (2015) | 2.7nH 27nH | 900mA 🗖 1.9A |
| | LQW2UAS_00 p286 | | 1008 (2520) | 12nH 4.7µН | 260mA 🔂 1A |
| | LQW31HN_03 p290 | | 1206 (3216) | B.8nH 100nH | 230mA 🗾 750mA |



Part Numbering

RF Inductors

(Part Number)

LQ G 15 H N 1N0 S 0 2 D 4 5 2 6 6 8 9

Product ID

| Product ID | |
|------------|-----------------------------|
| LQ | Chip Inductors (Chip Coils) |

2 Structure

| Code | Structure | | |
|------|--|--|--|
| G | Multilayer Type (Air-core Inductors (Coils)) | | |
| н | Wire Wound Type (Ferrite Core) | | |
| Р | Film Type | | |
| W | Wire Wound Type (Air-core Inductors (Coils)) | | |
| vv | Wire Wound Type (Ferrite Core) | | |

2 Dimensions (LxW)

| Code | Nominal Dimensions (LxW) | Size Code (in inch) | |
|------|--------------------------|---------------------|--|
| 02 | 0.4×0.2mm | 01005 | |
| 03 | 0.6×0.3mm | 0201 | |
| 04 | 0.8×0.4mm | 03015 | |
| 15 | 1.0×0.5mm | 0402 | |
| 18 | 1.6×0.8mm | 0603 | |
| 21 | 2.0×1.25mm | 0805 | |
| 2B | 2.0×1.5mm | 0805 | |
| 2U | 2.5×2.0mm | 1008 | |
| 31 | 3.2×1.6mm | 1206 | |

Applications and Characteristics

| Code | Series | Applications and Characteristics | |
|--------------------------------------|--------|---------------------------------------|--|
| | LQG | Multilayer Air-core Inductors (Coils) | |
| H M P | LQP | Film Type (High Q Type) | |
| М | | Film Type | |
| Р | LQP | Film Type (For Large Current) | |
| т | | Film Type (Low DC Resistance Type) | |
| Α | LQW | High Q Type (UHF-SHF) | |
| н | | High Q Type (VHF-UHF) | |
| H LQH for High-frequency Resonant Ci | | for High-frequency Resonant Circuit | |
| | | | |

GCategory

| Code | | Category | | | |
|------|---------|----------------------|--|--|--|
| G/N | | Standard Type | | | |
| s | General | Standard Type | | | |
| Q | General | High Q Type | | | |
| W | | Specialty Dimensions | | | |

Packaging

Code Packaging Series κ Embossed Taping (ø330mm Reel) LQH/LQW H*2 L/E Embossed Taping (ø180mm Reel) LQH/LQW2BA/LQW2UA/LQW H/LQP в LQW/LQG/LQP Bulk J Paper Taping (ø330mm Reel) LQW18A/LQG/LQP*1 LQW A*3 /LQG/LQP Paper Taping (ø180mm Reel) D

*1 Except for LQP02T *2 Except for LQW21H *3 Except for LQW2BA/LQW2UA

6Inductance

Expressed by three-digit alphanumerics. The unit is micro-henry (μ H). The first and second figures are significant digits, and the third figure expresses the number of zeros that follow the two figures. If there is a decimal point, it is expressed by the capital letter "R." In this case, all figures are significant digits. If inductance is less than 0.1 $\mu\text{H},$ the inductance code is expressed by a combination of two figures and the capital letter "N," and the unit of inductance is nano-henry (nH). The capital letter "N" indicates the unit of "nH," and also expresses a decimal point. In this case, all figures are significant digits. For those products whose inductance values are specified using three designated digits, these values may be indicated using the closest two digits instead.

Inductance Tolerance

| Code | Inductance Tolerance |
|------|----------------------|
| В | ±0.1nH |
| с | ±0.2nH |
| D | ±0.5nH |
| F | ±1% |
| G | ±2% |
| н | ±3% |
| J | ±5% |
| к | ±10% |
| s | ±0.3nH |
| W | ±0.05nH |

8 Features

| Code | Features | Series |
|------|---|-------------------|
| 0 | Standard Type | LQG/LQP/LQW/LQH*1 |
| 1 | High-Q/Low DC Resistance | LQW15A/18A/2BH |
| 8 | Low DC Resistance, Large Rated Current | LQW15A/LQW18A |

*1 Except for LQH32 Series

9Electrode

•Lead (Pb) Free

| Code | Electrode | Series | | |
|------|-----------|--|--|--|
| 0 | | LQG18H/LQW A/LQW | | |
| 2 | Sn | LQG15H/LQP02T/LQP03T/ LQP15T/LQP□□M | | |
| 3 | LF Solder | LQW H/LQH | | |

Inductors for General Circuits

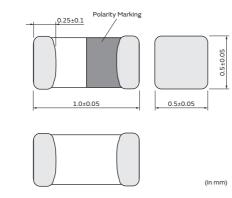
Inductors for Power Lines

Inductors for General Circuits

RF InductorsLQG15HN_02 Series 0402 (1005) inch (mm)

Appearance/Dimensions





Packaging

| Code | Packaging | Minimum Quantity | |
|------|---------------------|---------------------|--|
| D | ø180mm Paper Taping | 10000 | |
| L | ø330mm Paper Taping | 50000 | |
| В | Packing in Bulk | 1000 | |

Rated Value (: packaging code)

| Part Number | Inductance | Inductance Test Frequency | Q (min.) | Q Test Frequency | Rated Current | Max. of DC Resistance | S.R.F.* (min.) |
|---------------|--------------|------------------------------|----------|------------------|---------------|-----------------------|----------------|
| LQG15HN1N0B02 | 1.0nH ±0.1nH | 100MHz | 8 | 100MHz | 1000mA | 0.07Ω | 6000MHz |
| LQG15HN1N0C02 | 1.0nH ±0.2nH | 100MHz | 8 | 100MHz | 1000mA | 0.07Ω | 6000MHz |
| LQG15HN1N0S02 | 1.0nH ±0.3nH | 100MHz | 8 | 100MHz | 1000mA | 0.07Ω | 6000MHz |
| LQG15HN1N1B02 | 1.1nH ±0.1nH | 100MHz | 8 | 100MHz | 1000mA | 0.08Ω | 6000MHz |
| LQG15HN1N1C02 | 1.1nH ±0.2nH | 100MHz | 8 | 100MHz | 1000mA | 0.08Ω | 6000MHz |
| LQG15HN1N1S02 | 1.1nH ±0.3nH | 100MHz | 8 | 100MHz | 1000mA | 0.08Ω | 6000MHz |
| LQG15HN1N2B02 | 1.2nH ±0.1nH | 100MHz | 8 | 100MHz | 1000mA | 0.08Ω | 6000MHz |
| LQG15HN1N2C02 | 1.2nH ±0.2nH | 100MHz | 8 | 100MHz | 1000mA | 0.08Ω | 6000MHz |
| LQG15HN1N2S02 | 1.2nH ±0.3nH | 100MHz | 8 | 100MHz | 1000mA | 0.08Ω | 6000MHz |
| LQG15HN1N3B02 | 1.3nH ±0.1nH | 100MHz | 8 | 100MHz | 1000mA | 0.08Ω | 6000MHz |
| LQG15HN1N3C02 | 1.3nH ±0.2nH | 100MHz | 8 | 100MHz | 1000mA | 0.08Ω | 6000MHz |
| LQG15HN1N3S02 | 1.3nH ±0.3nH | 100MHz | 8 | 100MHz | 1000mA | 0.08Ω | 6000MHz |
| LQG15HN1N5B02 | 1.5nH ±0.1nH | 100MHz | 8 | 100MHz | 1000mA | 0.08Ω | 6000MHz |
| LQG15HN1N5C02 | 1.5nH ±0.2nH | 100MHz | 8 | 100MHz | 1000mA | 0.08Ω | 6000MHz |
| LQG15HN1N5S02 | 1.5nH ±0.3nH | 100MHz | 8 | 100MHz | 1000mA | 0.08Ω | 6000MHz |
| LQG15HN1N6B02 | 1.6nH ±0.1nH | 100MHz | 8 | 100MHz | 1000mA | 0.08Ω | 6000MHz |
| LQG15HN1N6C02 | 1.6nH ±0.2nH | 100MHz | 8 | 100MHz | 1000mA | 0.08Ω | 6000MHz |
| LQG15HN1N6S02 | 1.6nH ±0.3nH | 100MHz | 8 | 100MHz | 1000mA | 0.08Ω | 6000MHz |
| LQG15HN1N8B02 | 1.8nH ±0.1nH | 100MHz | 8 | 100MHz | 900mA | 0.08Ω | 6000MHz |
| LQG15HN1N8C02 | 1.8nH ±0.2nH | 100MHz | 8 | 100MHz | 900mA | 0.08Ω | 6000MHz |
| LQG15HN1N8S02 | 1.8nH ±0.3nH | 100MHz | 8 | 100MHz | 900mA | 0.08Ω | 6000MHz |
| LQG15HN2N0B02 | 2.0nH ±0.1nH | 100MHz | 8 | 100MHz | 900mA | 0.09Ω | 6000MHz |
| LQG15HN2N0C02 | 2.0nH ±0.2nH | 100MHz | 8 | 100MHz | 900mA | 0.09Ω | 6000MHz |
| LQG15HN2N0S02 | 2.0nH ±0.3nH | 100MHz | 8 | 100MHz | 900mA | 0.09Ω | 6000MHz |
| LQG15HN2N2B02 | 2.2nH ±0.1nH | 100MHz | 8 | 100MHz | 900mA | 0.09Ω | 6000MHz |
| LQG15HN2N2C02 | 2.2nH ±0.2nH | 100MHz | 8 | 100MHz | 900mA | 0.09Ω | 6000MHz |
| LQG15HN2N2S02 | 2.2nH ±0.3nH | 100MHz | 8 | 100MHz | 900mA | 0.09Ω | 6000MHz |
| LQG15HN2N4B02 | 2.4nH ±0.1nH | 100MHz | 8 | 100MHz | 800mA | 0.10Ω | 6000MHz |
| LQG15HN2N4C02 | 2.4nH ±0.2nH | 100MHz | 8 | 100MHz | 800mA | 0.10Ω | 6000MHz |
| LQG15HN2N4S02 | 2.4nH ±0.3nH | 100MHz | 8 | 100MHz | 800mA | 0.10Ω | 6000MHz |
| LQG15HN2N7B02 | 2.7nH ±0.1nH | 100MHz | 8 | 100MHz | 800mA | 0.10Ω | 6000MHz |
| LQG15HN2N7C02 | 2.7nH ±0.2nH | 100MHz | 8 | 100MHz | 800mA | 0.10Ω | 6000MHz |

Operating temp. range (Self-temp. rise not included): -55 to 125°C

For reflow soldering only

*S.R.F.: Self-Resonant Frequency

RF Inductors

Continued from the preceding page. \searrow

| Part Number | Inductance | Inductance Test Frequency | Q (min.) | Q Test Frequency | Rated Current | Max. of DC Resistance | S.R.F.* (mi |
|--------------|--------------|------------------------------|----------|------------------|---------------|-----------------------|-------------|
| QG15HN2N7S02 | 2.7nH ±0.3nH | 100MHz | 8 | 100MHz | 800mA | 0.10Ω | 6000MH |
| QG15HN3N0B02 | 3.0nH ±0.1nH | 100MHz | 8 | 100MHz | 800mA | 0.11Ω | 6000MH |
| QG15HN3N0C02 | 3.0nH ±0.2nH | 100MHz | 8 | 100MHz | 800mA | 0.11Ω | 6000MH |
| QG15HN3N0S02 | 3.0nH ±0.3nH | 100MHz | 8 | 100MHz | 800mA | 0.11Ω | 6000MH |
| QG15HN3N3B02 | 3.3nH ±0.1nH | 100MHz | 8 | 100MHz | 800mA | 0.12Ω | 6000MH |
| QG15HN3N3C02 | 3.3nH ±0.2nH | 100MHz | 8 | 100MHz | 800mA | 0.12Ω | 6000MH |
| QG15HN3N3S02 | 3.3nH ±0.3nH | 100MHz | 8 | 100MHz | 800mA | 0.12Ω | 6000MH |
| QG15HN3N6B02 | 3.6nH ±0.1nH | 100MHz | 8 | 100MHz | 700mA | 0.13Ω | 6000MH |
| QG15HN3N6C02 | 3.6nH ±0.2nH | 100MHz | 8 | 100MHz | 700mA | 0.13Ω | 6000MH |
| QG15HN3N6S02 | 3.6nH ±0.3nH | 100MHz | 8 | 100MHz | 700mA | 0.13Ω | 6000MH |
| QG15HN3N9B02 | 3.9nH ±0.1nH | 100MHz | 8 | 100MHz | 700mA | 0.13Ω | 6000MH |
| QG15HN3N9C02 | 3.9nH ±0.2nH | 100MHz | 8 | 100MHz | 700mA | 0.13Ω | 6000MH |
| QG15HN3N9S02 | 3.9nH ±0.3nH | 100MHz | 8 | 100MHz | 700mA | 0.13Ω | 6000MH |
| QG15HN4N3B02 | 4.3nH ±0.1nH | 100MHz | 8 | 100MHz | 700mA | 0.15Ω | 6000MH |
| QG15HN4N3C02 | 4.3nH ±0.2nH | 100MHz | 8 | 100MHz | 700mA | 0.15Ω | 6000MH |
| QG15HN4N3S02 | 4.3nH ±0.3nH | 100MHz | 8 | 100MHz | 700mA | 0.15Ω | 6000MH |
| QG15HN4N7B02 | 4.7nH ±0.1nH | 100MHz | 8 | 100MHz | 700mA | 0.16Ω | 6000MH |
| QG15HN4N7C02 | 4.7nH ±0.2nH | 100MHz | 8 | 100MHz | 700mA | 0.16Ω | 6000MH |
| QG15HN4N7S02 | 4.7nH ±0.3nH | 100MHz | 8 | 100MHz | 700mA | 0.16Ω | 6000MH |
| QG15HN5N1B02 | 5.1nH ±0.1nH | 100MHz | 8 | 100MHz | 600mA | 0.16Ω | 6000MH |
| QG15HN5N1C02 | 5.1nH ±0.2nH | 100MHz | 8 | 100MHz | 600mA | 0.16Ω | 6000MF |
| QG15HN5N1502 | 5.1nH ±0.3nH | 100MHz | 8 | 100MHz | 600mA | 0.16Ω | 6000MF |
| | | | 8 | 100MHz | | 0.18Ω | |
| | 5.6nH ±0.1nH | 100MHz | | | 600mA | | 5300MH |
| QG15HN5N6C02 | 5.6nH ±0.2nH | 100MHz | 8 | 100MHz | 600mA | 0.18Ω | 5300MH |
| QG15HN5N6S02 | 5.6nH ±0.3nH | 100MHz | 8 | 100MHz | 600mA | 0.18Ω | 5300MH |
| QG15HN6N2B02 | 6.2nH ±0.1nH | 100MHz | 8 | 100MHz | 600mA | 0.19Ω | 4300MF |
| QG15HN6N2C02 | 6.2nH ±0.2nH | 100MHz | 8 | 100MHz | 600mA | 0.19Ω | 4300MF |
| QG15HN6N2S02 | 6.2nH ±0.3nH | 100MHz | 8 | 100MHz | 600mA | 0.19Ω | 4300MF |
| QG15HN6N8G02 | 6.8nH ±2% | 100MHz | 8 | 100MHz | 600mA | 0.21Ω | 4200MF |
| QG15HN6N8H02 | 6.8nH ±3% | 100MHz | 8 | 100MHz | 600mA | 0.21Ω | 4200MF |
| QG15HN6N8J02 | 6.8nH ±5% | 100MHz | 8 | 100MHz | 600mA | 0.21Ω | 4200MF |
| QG15HN7N5G02 | 7.5nH ±2% | 100MHz | 8 | 100MHz | 500mA | 0.24Ω | 3900MF |
| QG15HN7N5H02 | 7.5nH ±3% | 100MHz | 8 | 100MHz | 500mA | 0.24Ω | 3900MH |
| QG15HN7N5J02 | 7.5nH ±5% | 100MHz | 8 | 100MHz | 500mA | 0.24Ω | 3900MH |
| QG15HN8N2G02 | 8.2nH ±2% | 100MHz | 8 | 100MHz | 500mA | 0.25Ω | 3600MH |
| QG15HN8N2H02 | 8.2nH ±3% | 100MHz | 8 | 100MHz | 500mA | 0.25Ω | 3600MH |
| QG15HN8N2J02 | 8.2nH ±5% | 100MHz | 8 | 100MHz | 500mA | 0.25Ω | 3600MH |
| QG15HN9N1G02 | 9.1nH ±2% | 100MHz | 8 | 100MHz | 500mA | 0.27Ω | 3400MH |
| QG15HN9N1H02 | 9.1nH ±3% | 100MHz | 8 | 100MHz | 500mA | 0.27Ω | 3400MH |
| QG15HN9N1J02 | 9.1nH ±5% | 100MHz | 8 | 100MHz | 500mA | 0.27Ω | 3400MH |
| QG15HN10NG02 | 10nH ±2% | 100MHz | 8 | 100MHz | 500mA | 0.29Ω | 3200MF |
| QG15HN10NH02 | 10nH ±3% | 100MHz | 8 | 100MHz | 500mA | 0.29Ω | 3200MH |
| QG15HN10NJ02 | 10nH ±5% | 100MHz | 8 | 100MHz | 500mA | 0.29Ω | 3200MH |
| QG15HN12NG02 | 12nH ±2% | 100MHz | 8 | 100MHz | 400mA | 0.40Ω | 2800MH |
| QG15HN12NH02 | 12nH ±3% | 100MHz | 8 | 100MHz | 400mA | 0.40Ω | 2800MH |
| QG15HN12NJ02 | 12nH ±5% | 100MHz | 8 | 100MHz | 400mA | 0.40Ω | 2800MH |
| QG15HN15NG02 | 15nH ±2% | 100MHz | 8 | 100MHz | 400mA | 0.45Ω | 2300MF |
| QG15HN15NH02 | 15nH ±3% | 100MHz | 8 | 100MHz | 400mA | 0.45Ω | 2300MH |
| QG15HN15NJ02 | 15nH ±5% | 100MHz | 8 | 100MHz | 400mA | 0.45Ω | 2300MH |
| QG15HN18NG02 | 18nH ±2% | 100MHz | 8 | 100MHz | 350mA | 0.51Ω | 2300MH |
| QG15HN18NH02 | 18nH ±3% | 100MHz | 8 | 100MHz | 350mA | 0.51Ω | 2100MF |
| QG15HN18NJ02 | 18nH ±5% | 100MHz | 8 | 100MHz | 350mA | 0.51Ω | 2100MF |
| | 10110 1070 | 10011172 | 0 | 10011172 | AIIIOC | 0.511 | ZIUUM |

Operating temp. range (Self-temp. rise not included): -55 to 125 $^{\circ}\mathrm{C}$

For reflow soldering only

*S.R.F.: Self-Resonant Frequency

muRata

Continued from the preceding page. \searrow

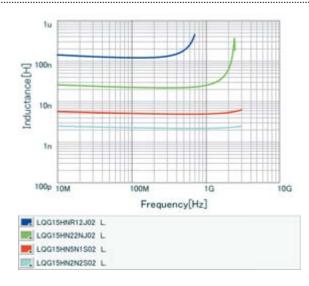
| Part Number | Inductance | Inductance Test Frequency | Q (min.) | Q Test Frequency | Rated Current | Max. of DC Resistance | S.R.F.* (min.) |
|---------------|------------|------------------------------|----------|------------------|---------------|-----------------------|----------------|
| LQG15HN22NH02 | 22nH ±3% | 100MHz | 8 | 100MHz | 350mA | 0.58Ω | 1800MHz |
| LQG15HN22NJ02 | 22nH ±5% | 100MHz | 8 | 100MHz | 350mA | 0.58Ω | 1800MHz |
| LQG15HN27NG02 | 27nH ±2% | 100MHz | 8 | 100MHz | 300mA | 0.67Ω | 1600MHz |
| LQG15HN27NH02 | 27nH ±3% | 100MHz | 8 | 100MHz | 300mA | 0.67Ω | 1600MHz |
| LQG15HN27NJ02 | 27nH ±5% | 100MHz | 8 | 100MHz | 300mA | 0.67Ω | 1600MHz |
| LQG15HN33NG02 | 33nH ±2% | 100MHz | 8 | 100MHz | 300mA | 0.67Ω | 1500MHz |
| LQG15HN33NH02 | 33nH ±3% | 100MHz | 8 | 100MHz | 300mA | 0.67Ω | 1500MHz |
| LQG15HN33NJ02 | 33nH ±5% | 100MHz | 8 | 100MHz | 300mA | 0.67Ω | 1500MHz |
| LQG15HN39NG02 | 39nH ±2% | 100MHz | 8 | 100MHz | 250mA | 1.06Ω | 1200MHz |
| LQG15HN39NH02 | 39nH ±3% | 100MHz | 8 | 100MHz | 250mA | 1.06Ω | 1200MHz |
| LQG15HN39NJ02 | 39nH ±5% | 100MHz | 8 | 100MHz | 250mA | 1.06Ω | 1200MHz |
| LQG15HN47NG02 | 47nH ±2% | 100MHz | 8 | 100MHz | 250mA | 1.15Ω | 1000MHz |
| LQG15HN47NH02 | 47nH ±3% | 100MHz | 8 | 100MHz | 250mA | 1.15Ω | 1000MHz |
| LQG15HN47NJ02 | 47nH ±5% | 100MHz | 8 | 100MHz | 250mA | 1.15Ω | 1000MHz |
| LQG15HN56NG02 | 56nH ±2% | 100MHz | 8 | 100MHz | 200mA | 1.20Ω | 800MHz |
| LQG15HN56NH02 | 56nH ±3% | 100MHz | 8 | 100MHz | 200mA | 1.20Ω | 800MHz |
| LQG15HN56NJ02 | 56nH ±5% | 100MHz | 8 | 100MHz | 200mA | 1.20Ω | 800MHz |
| LQG15HN68NG02 | 68nH ±2% | 100MHz | 8 | 100MHz | 200mA | 1.25Ω | 800MHz |
| LQG15HN68NH02 | 68nH ±3% | 100MHz | 8 | 100MHz | 200mA | 1.25Ω | 800MHz |
| LQG15HN68NJ02 | 68nH ±5% | 100MHz | 8 | 100MHz | 200mA | 1.25Ω | 800MHz |
| LQG15HN82NG02 | 82nH ±2% | 100MHz | 8 | 100MHz | 200mA | 1.60Ω | 600MHz |
| LQG15HN82NH02 | 82nH ±3% | 100MHz | 8 | 100MHz | 200mA | 1.60Ω | 600MHz |
| LQG15HN82NJ02 | 82nH ±5% | 100MHz | 8 | 100MHz | 200mA | 1.60Ω | 600MHz |
| LQG15HNR10G02 | 100nH ±2% | 100MHz | 8 | 100MHz | 200mA | 1.60Ω | 600MHz |
| LQG15HNR10H02 | 100nH ±3% | 100MHz | 8 | 100MHz | 200mA | 1.60Ω | 600MHz |
| LQG15HNR10J02 | 100nH ±5% | 100MHz | 8 | 100MHz | 200mA | 1.60Ω | 600MHz |
| LQG15HNR12G02 | 120nH ±2% | 100MHz | 8 | 100MHz | 150mA | 1.60Ω | 600MHz |
| LQG15HNR12H02 | 120nH ±3% | 100MHz | 8 | 100MHz | 150mA | 1.60Ω | 600MHz |
| LQG15HNR12J02 | 120nH ±5% | 100MHz | 8 | 100MHz | 150mA | 1.60Ω | 600MHz |

Operating temp. range (Self-temp. rise not included): -55 to 125°C

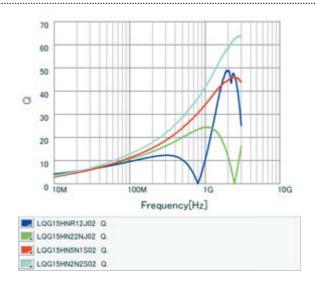
For reflow soldering only

*S.R.F.: Self-Resonant Frequency

Inductance-Frequency Characteristics (Typ.)



Q-Frequency Characteristics (Typ.)



RF InductorsLQG15HS_02 Series 0402 (1005) inch (mm)

0.5±0.05

(in mm)

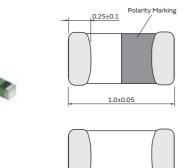
0.5±0.05

Appearance/Dimensions

RF Inductors

TOKO Products Inductors for Power Lines

TOKO Products Inductors for General Circuits



Packaging

| Code | Packaging | Minimum Quantity |
|------|---------------------|---------------------|
| D | ø180mm Paper Taping | 10000 |
| L | ø330mm Paper Taping | 50000 |
| В | Packing in Bulk | 1000 |

Rated Value (: packaging code)

| Part Number | Inductance | Inductance Test Frequency | Q (min.) | Q Test Frequency | Rated Current | Max. of DC Resistance | S.R.F.* (min.) |
|---------------|--------------|------------------------------|----------|------------------|---------------|-----------------------|----------------|
| LQG15HS1N0B02 | 1.0nH ±0.1nH | 100MHz | 8 | 100MHz | 1000mA | 0.07Ω | 10000MHz |
| LQG15HS1N0C02 | 1.0nH ±0.2nH | 100MHz | 8 | 100MHz | 1000mA | 0.07Ω | 10000MHz |
| LQG15HS1N0S02 | 1.0nH ±0.3nH | 100MHz | 8 | 100MHz | 1000mA | 0.07Ω | 10000MHz |
| LQG15HS1N1B02 | 1.1nH ±0.1nH | 100MHz | 8 | 100MHz | 1000mA | 0.07Ω | 6000MHz |
| LQG15HS1N1C02 | 1.1nH ±0.2nH | 100MHz | 8 | 100MHz | 1000mA | 0.07Ω | 6000MHz |
| LQG15HS1N1S02 | 1.1nH ±0.3nH | 100MHz | 8 | 100MHz | 1000mA | 0.07Ω | 6000MHz |
| LQG15HS1N2B02 | 1.2nH ±0.1nH | 100MHz | 8 | 100MHz | 1000mA | 0.07Ω | 6000MHz |
| LQG15HS1N2C02 | 1.2nH ±0.2nH | 100MHz | 8 | 100MHz | 1000mA | 0.07Ω | 6000MHz |
| LQG15HS1N2S02 | 1.2nH ±0.3nH | 100MHz | 8 | 100MHz | 1000mA | 0.07Ω | 6000MHz |
| LQG15HS1N3B02 | 1.3nH ±0.1nH | 100MHz | 8 | 100MHz | 1000mA | 0.07Ω | 6000MHz |
| LQG15HS1N3C02 | 1.3nH ±0.2nH | 100MHz | 8 | 100MHz | 1000mA | 0.07Ω | 6000MHz |
| LQG15HS1N3S02 | 1.3nH ±0.3nH | 100MHz | 8 | 100MHz | 1000mA | 0.07Ω | 6000MHz |
| LQG15HS1N5B02 | 1.5nH ±0.1nH | 100MHz | 8 | 100MHz | 1000mA | 0.07Ω | 6000MHz |
| LQG15HS1N5C02 | 1.5nH ±0.2nH | 100MHz | 8 | 100MHz | 1000mA | 0.07Ω | 6000MHz |
| LQG15HS1N5S02 | 1.5nH ±0.3nH | 100MHz | 8 | 100MHz | 1000mA | 0.07Ω | 6000MHz |
| LQG15HS1N6B02 | 1.6nH ±0.1nH | 100MHz | 8 | 100MHz | 1000mA | 0.07Ω | 6000MHz |
| LQG15HS1N6C02 | 1.6nH ±0.2nH | 100MHz | 8 | 100MHz | 1000mA | 0.07Ω | 6000MHz |
| LQG15HS1N6S02 | 1.6nH ±0.3nH | 100MHz | 8 | 100MHz | 1000mA | 0.07Ω | 6000MHz |
| LQG15HS1N8B02 | 1.8nH ±0.1nH | 100MHz | 8 | 100MHz | 950mA | 0.08Ω | 6000MHz |
| LQG15HS1N8C02 | 1.8nH ±0.2nH | 100MHz | 8 | 100MHz | 950mA | 0.08Ω | 6000MHz |
| LQG15HS1N8S02 | 1.8nH ±0.3nH | 100MHz | 8 | 100MHz | 950mA | 0.08Ω | 6000MHz |
| LQG15HS2N0B02 | 2.0nH ±0.1nH | 100MHz | 8 | 100MHz | 900mA | 0.09Ω | 6000MHz |
| LQG15HS2N0C02 | 2.0nH ±0.2nH | 100MHz | 8 | 100MHz | 900mA | 0.09Ω | 6000MHz |
| LQG15HS2N0S02 | 2.0nH ±0.3nH | 100MHz | 8 | 100MHz | 900mA | 0.09Ω | 6000MHz |
| LQG15HS2N2B02 | 2.2nH ±0.1nH | 100MHz | 8 | 100MHz | 900mA | 0.09Ω | 6000MHz |
| LQG15HS2N2C02 | 2.2nH ±0.2nH | 100MHz | 8 | 100MHz | 900mA | 0.09Ω | 6000MHz |
| LQG15HS2N2S02 | 2.2nH ±0.3nH | 100MHz | 8 | 100MHz | 900mA | 0.09Ω | 6000MHz |
| LQG15HS2N4B02 | 2.4nH ±0.1nH | 100MHz | 8 | 100MHz | 850mA | 0.11Ω | 6000MHz |
| LQG15HS2N4C02 | 2.4nH ±0.2nH | 100MHz | 8 | 100MHz | 850mA | 0.11Ω | 6000MHz |
| LQG15HS2N4S02 | 2.4nH ±0.3nH | 100MHz | 8 | 100MHz | 850mA | 0.11Ω | 6000MHz |
| LQG15HS2N7B02 | 2.7nH ±0.1nH | 100MHz | 8 | 100MHz | 800mA | 0.12Ω | 6000MHz |
| LQG15HS2N7C02 | 2.7nH ±0.2nH | 100MHz | 8 | 100MHz | 800mA | 0.12Ω | 6000MHz |

Operating temp. range (Self-temp. rise not included): -55 to 125°C

For reflow soldering only

*S.R.F.: Self-Resonant Frequency

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RF Inductors **ACaution/Notice**

Caution

Rating

Inductors for Power Lines

1. About the Rated Current

Do not use products beyond the rated current as this may create excessive heat and deteriorate the insulation resistance.

Notice

Storage and Operating Condition

<Operating Environment>

Do not use products in a chemical atmosphere such as chlorine gas, acid or sulfide gas.

- <Storage Requirements> 1. Storage Period
 - The LQG series should be used within 6 months; the other products should be used within 12 months.
 - Check solderability if this period is exceeded.
- 2. Storage Conditions
 - (1) Store products in a warehouse in compliance with the following conditions: Temperature: -10 to +40 degrees C.

Humidity: 15 to 85% (relative humidity)

Handling

This item is designed to have sufficient strength, but handle with care to avoid chipping or breaking its ceramic structure.

LQW_A/LQW_H series

- To prevent breaking the wire, avoid touching with sharp materials, such as tweezers or the bristles of a cleaning brush, to the wire wound portion.
- To prevent breaking the core, avoid applying excessive mechanical shock to products mounted on the board.
- In some mounting machines, when picking up components, a support pin pushes the components up from the bottom of the base tape. In this case, please remove the support pin. The support pin may damage the components and break the wire.
- In rare cases, the laser recognition cannot recognize this component. Please contact us when you use laser recognizion. (There is no problem with the permeation and reflection type.)

2. About Excessive Surge Current

Surge current (pulse current or rush current) greater than the specified rated current applied to the product may cause a critical failure, such as an open circuit or burnout caused by excessive temperature rise.

Please contact us in advance if applying a surge current.

Do not subject products to rapid changes in temperature and humidity.

Do not store them in a chemical atmosphere such as one containing sulfurous acid gas or alkaline gas. This will prevent electrode oxidation, which causes poor solderability and possible corrosion of inductors.

- (2) Do not store products in bulk packaging to prevent collision among inductors, which causes core chipping and wire breakage.
- (3) Store products on pallets to protect from humidity, dust, etc.
- (4) Avoid heat shock, vibration, direct sunlight, etc.

LQH_H series

• To prevent breaking the wire, avoid touching with sharp materials, such as tweezers or the bristles of a cleaning brush, to the wire wound portion of this product.

.....

• To prevent breaking the core, avoid applying excessive mechanical shock to products mounted on the board.

LQG,LQP series (except LQP02_02/LQP03_02)

- The pattern of the chip Inductors is covered with protective film. Take care to avoid damaging the chip Inductors when handling it with pick-up nozzles, sharp instruments, etc.
- <Transportation>

Do not apply excessive vibration or mechanical shock to products.

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TOKO Products

Inductors for General Circuits



TOKO Products Inductors for Power Lines

Inductors for Power Lines

RF Inductors Soldering and Mounting

Continued from the preceding page. \searrow

<Resin Coating>

When coating products with resin, the relatively high resin curing stress may change inductance values.

For exterior coating, select resin carefully so that electrical and mechanical performance of the product is not affected. Prior to use, please evaluate reliability with the product mounted in your application set.

(LQW, LQH series)

An open circuit issue may occur by mechanical stress caused by the resin, amount/cured shape of resin, or operating conditions, etc. Some resins containing impurities or chloride may possibly generate chlorine by hydrolysis under some operating conditions, causing corrosion of the inductor wire and leading to an open circuit.

(LQP02_02/LQP03_02)

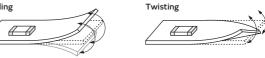
When products are coated with resin, please contact us in advance.

<Handling of a Substrate>

After mounting products on a substrate, do not apply any stress to the product caused by bending or twisting the substrate when cropping the substrate, inserting and removing a connector from the substrate, or tightening a screw to the substrate.

Excessive mechanical stress may cause cracking in the Product.

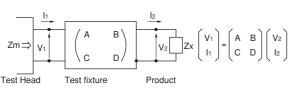
Bending



Measuring Method

Measuring Method of Inductance/Q

1. Residual elements and stray elements of test fixtures can be described by F-parameter as shown in the following:



2. The impedance of chip Inductors (chip coils) Zx and measured value Zm can be described by input/output current/voltage.

$$Zm = \frac{V_1}{I_1} , \quad Zx = \frac{V_2}{I_2}$$

3. Thus, the relation between Zx and Zm is shown in the following:

$$Zx = \alpha \frac{Zm - \beta}{1 - Zm\Gamma}$$

where,
$$\alpha = D / A = 1$$

 $\beta = B / D = Zsm - (1 - Yom Zsm) Zss$
 $\Gamma = C / A = Yom$

Zsm: measured impedance of short chip Zss: residual impedance of short chip* Yom: measured admittance when opening the fixture

*Residual impedance of short chip

| Residual Impedance | Series |
|-----------------------|---------------------------------------|
| 0nH | LQG15H/LQP03TG |
| 0.110nH | LQP02HQ/LQP02TN/LQP02TQ |
| 0.464nH | LQW04AN |
| 0.480nH | LQP03HQ/LQP03TN_02/LQW03AW |
| 0.556nH | LQG15HN, LQW15A, LQP15M |
| 0.771nH | LQG18H, LQP18M, LQW18A,LQW21H/LQW2BAN |

4. Lx and Qx should be calculated with the following equation.

$$Lx = \frac{Im (Zx)}{2\pi f} , \quad Qx = \frac{Im (Zx)}{Re (Zx)}$$

Lx: Inductance of chip Inductors (chip coils) Qx: Q of chip Inductors (chip coils) f: Measuring frequency

Please contact us for LQW18AS, LQW2BAS, LQW2UAS, because they are different from other inductors regarding the inductance calculation method.

Solder Resist

RF Inductors Soldering and Mounting

1. Standard Land Pattern Dimensions

A high Q value is achieved when the PCB electrode land pattern is designed so that it does not project beyond the chip Inductor's (chip coil's) electrode.

| | | | | | (in mm |
|-------------------|---|--------------------------|-------------|-------------|-------------|
| Series | | Standard Land Dimensions | | | (|
| LQG15H | | Part Number | a | b | с |
| LQG18H LOP02TN | | LQG15H | 0.4 | 1.4 to 1.5 | 0.5 to 0.6 |
| LQP02TQ | | LQG18H | 0.6 to 0.8 | 1.8 to 2.2 | 0.6 to 0.8 |
| LQP03T | | LQP02TN | 0.16 to 0.2 | 0.4 to 0.56 | 0.2 to 0.23 |
| LQP15M | | LQP02HQ/TQ | 0.2 | 0.56 | 0.16 |
| LQP18M | | LQP03HQ | 0.3 | 0.9 | 0.25 to 0.3 |
| LQW03A | | LQP03TN/TG/PN | 0.2 to 0.3 | 0.8 to 0.9 | 0.2 to 0.3 |
| LQW04A | | LQP03TQ | 0.3 | 0.9 | 0.25 |
| LQW15A LQW18A | ¥ | LQP15M | 0.4 | 1.4 to 1.5 | 0.5 to 0.6 |
| LQW21H | υ | LQP18M | 0.7 to 0.9 | 1.8 to 2.2 | 0.6 to 0.8 |
| LQW2BH | | LQW03A | 0.23 | 0.65 | 0.4 |
| LQW2BA | a | LQW04A | 0.4 | 1.0 | 0.4 |
| LQW2UA | b | LQW15A_00/10 | 0.5 | 1.2 | 0.65 |
| LQW31H | | LQW15A_80 | 0.6 | 1.42 | 0.66 |
| LQH31H | | LQW18AN_00/10/ AS_00 | 0.6 to 0.8 | 1.9 to 2.0 | 0.7 to 1.0 |
| | | LQW18A_80 | 0.86 | 2.0 | 1.15 |
| | | LQW21H | 1.0 | 2.6 | 1.2 |
| | | LQW2BH | 0.8 | 3.0 | 1.2 |
| | | LQW2BA | 0.76 | 2.8 | 1.78 |
| | | LQW2UA | 1.27 | 3.3 | 2.54 |
| | | LQH31H LQW31H | 1.0 | 4.5 | 1.5 |

Land Pattern + Solder Resist

Land Pattern

Attention should be paid to potential magnetic coupling effects when using the Inductor (coil) as a resonator.

2. Standard Soldering Conditions

(1) Soldering method

Chip Inductors (Chip coils) can be flow or reflow

soldered.

Please contact Murata regarding other soldering

methods.

For LQG, LQP,

LQW03A/04A/15A/18A/21H/2BA/2UA series,

please use reflow soldering.

Solder: Use Sn-3.0Ag-0.5Cu solder.

Flux: Use rosin-based flux, but not strongly acidic flux

(with chlorine content exceeding 0.2wt%).

- Do not use water-soluble flux.
- The flux used for the LQW03/04/15/18/21/2BA/
- 2UA series should be a rosin-based flux that includes a middle activator equivalent to 0.06wt% to 0.1wt%
- chlorine. For additional mounting methods, please contact Murata.

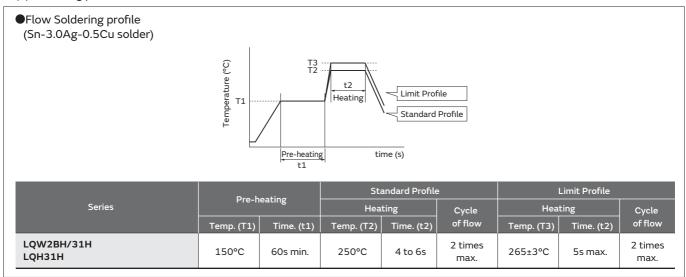
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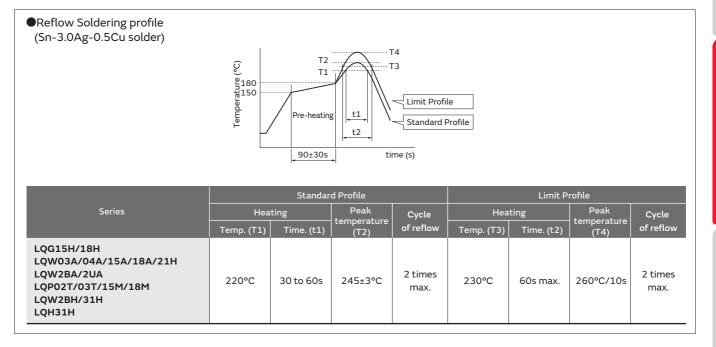


RF Inductors Soldering and Mounting

Continued from the preceding page. \searrow

(2) Soldering profile





(3) Reworking with a Soldering Iron

*Except for LQP02T/LQW04AN/03AW/15AN_80 Series

Preheating at 150°C for 1 minute is required. Do not directly touch the ceramic element with the tip of the soldering iron. The reworking soldering conditions are as follows:

Soldering iron power output: 80W max.

Temperature of soldering iron tip: 350°C

Diameter of soldering iron end: 3.0mm max.

Soldering time: within 3 s

Please keep the fix time with the soldering iron within

2 times.

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Inductors for Power Lines

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RF Inductors Soldering and Mounting

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3. Mounting Instructions

Inductors for Power Lines

Inductors for General Circuits

RF Inductors

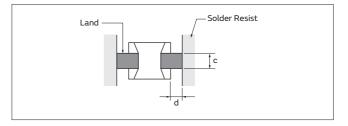
(1) Land Pattern Dimensions

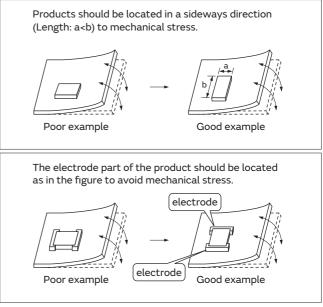
Large lands reduce the Q of the mounted chip. Also, large protruding land areas (bordered by lines having the dimensions "c" and "d" shown) cause floating and electrode leaching.

(2) Land Pattern Designing (LQW series)
Please follow the recommended patterns.
Otherwise, their performance, which includes electrical performance or solderability, may be affected, or result in "position shift" in the soldering process.

(3) PCB Warping

The PCB should be designed so that products are not subjected to mechanical stress caused by warping the board.





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Note • Please read rating and ACAUTION (for storage, operating, rating, soldering, mounting and handling) in this catalog to prevent smoking and/or burning, etc.
 • This catalog has only typical specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

RF Inductors Soldering and Mounting

Continued from the preceding page.

(4) Amount of Solder Paste

Excessive solder causes electrode corrosion, while insufficient solder causes low electrode bonding strength. Adjust the amount of solder paste as shown on the right so that the correct amount is applied. Guideline of solder paste thickness

- LQP (*Except for LQP02TN/LQP02TQ/HQ/ LQP03TQ/HQ),LQG,LQW15AN_00/ LQW15AN_10/LQW18AN/LQW21H/LQW2BA/ LQW2UA: 100 to 150µm
- LQP02TN: 50 to 80µm
- LQP02TQ/HQ: 50 to 65µm
- LQP03TQ/HQ: 100µm
- LQW03A/LQW04A: 80 to 100µm

The following conditions should be observed when

(1) Cleaning Temperature: 60°C max. (40°C max. for

Care should be taken not to cause resonance of the

cleaning chip inductors (chip coils):

alcohol cleaning agents)

Duration: 5 minutes max.

Frequency: 28 to 40kHz

PCB and mounted products.

Output: 20W/l max.

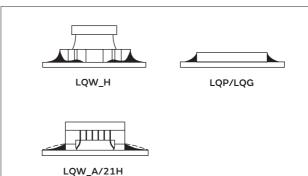
- LQW15AN_80: 50 to 100µm
- LQW_H: 200 to 300µm

LQW15A Series:

4. Cleaning

(2) Ultrasonic

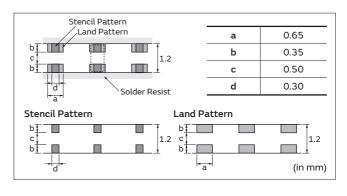
Too much solder may cause slant or rotation of the chip at the time of solder melting. Please reduce the amount of solder by using a smaller solder area than the land pattern, as shown in the figure at right.





Inductors for Power Lines

nductors for General Circuits **TOKO Products**



(3) Cleaning agent

The following cleaning agents have been tested on individual components. Evaluation in complete assembly should be done prior to production.

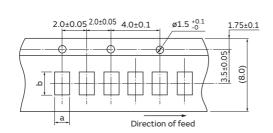
- (a) Alcohol cleaning agents Isopropyl alcohol (IPA)
- (b) Aqueous cleaning agents Pine Alpha ST-100S
- (4) Ensure that flux residue is completely removed. Component should be thoroughly dried after aqueous agents have been removed with deionized water.

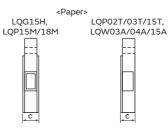
For additional cleaning methods, please contact Murata.

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RF Inductors Packaging

Minimum Quantity and 8mm Width Taping Dimensions







Paper Tape

| Part Number | Dimensions | | Total Thickness of Tape | Packaging Code (Minimum Qty. (pcs.)) | | |
|------------------|----------------|-----------|-------------------------|--------------------------------------|------------------|-----------------|
| Part Number | a | b | с | ø180mm reel | ø330mm reel | Bulk |
| LQG15H | 0.62 | 1.12 | 0.8 max. | D (10000) | J (50000) | B (1000) |
| LQP02TN | 0.24 | 0.47 | 0.39 max. | D (20000) | — | B (500) |
| LQP02TQ | 0.23 | 0.45 | 0.39 max. | D (20000) | — | B (500) |
| LQP03HQ | 0.36 | 0.68 | 0.55 max. | D (15000) | J (50000) | B (500) |
| LQP03TN/TG/TQ *1 | 0.35 | 0.65/0.67 | 0.55 max. | D (15000) | J (50000) | B (500) |
| LQP15M | 0.70 | 1.20 | 0.8 max. | D (10000) | J (50000) | B (500) |
| LQP18M | 1.19 | 2.0 | 0.8 max. | D (4000) | J (10000) | B (500) |
| LQW03A | 0.52 | 0.65 | 0.75 max. | D (10000) | — | _ |
| LQW04A | 0.49 | 0.91 | 0.75 max. | D (10000) | | B (500) |
| LQW15A_00 *2 | 0.64/0.66/0.69 | 1.18 | 0.8 max. | D (10000) | | B (500) |
| LQW15A_10 *3 | 0.66/0.69 | 1.18 | 0.8 max. | D (10000) | | B (500) |
| LQW15A_80 | 0.75 | 1.18 | 0.8 max. | D (10000) | _ | B (500) |

*1 0.67 (LQP03TG · LQP03TN_02; 0.6 to 62nH, 130 to 270nH · LQP03PN, LQP03TQ) 0.65 (LQP03TN_02; 68 to 120nH)

*2 0.69 (1.5nH, 2.4 to 2.8nH, 3.9 to 4.8nH, 5.8 to 6.8nH, 8.2 to 9.9nH, 11nH, 12nH, 15nH)

0.66 (1.6 to 1.8nH, 2.9nH, 3.0nH, 3.1nH, 3.2nH, 4.9 to 5.1nH, 6.9 to 7.5nH, 10nH, 13nH, 16 to 23nH, 100nH, 120nH) 0.64 (24 to 91nH)

*3 0.69 (1.3nH, 1.4nH)

0.66 (2.2 to 8.4nH)

Embossed Tape

| Part Number | Dimensions | | Total Thickness of Tape | Packaging Code (Minimum Qty. (pcs.)) | | |
|-------------|------------|------|-------------------------|--------------------------------------|-------------|----------------|
| | a | b | | ø180mm reel | ø330mm reel | Bulk |
| LQP02HQ | 0.24 | 0.46 | 0.34 max. | E (15000) | — | B (500) |

(in mm)

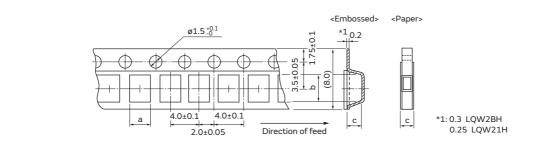
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RF Inductors Packaging

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Minimum Quantity and 8mm Width Taping Dimensions



The dimension of the cavity of embossed tape is measured at the bottom side.

Paper Tape

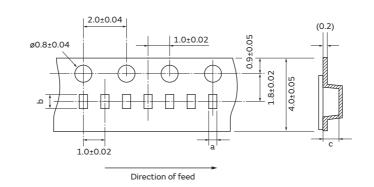
| Part Number | Dimensions | | Total Thickness of Tape | Packaging Code (Minimum Qty. (pcs.)) | | |
|-------------|------------|------|-------------------------|--------------------------------------|------------------|-----------------|
| Part Number | a | b | с | ø180mm reel | ø330mm reel | Bulk |
| LQG18H | 1.05 | 1.85 | 1.1 max. | D (4000) | J (10000) | B (1000) |
| LQW18AN_00 | 1.0 | 1.8 | 1.1 max. | D (4000) | J (10000) | B (500) |
| LQW18AN_10 | 1.1 | 1.9 | 1.1 max. | D (4000) | J (10000) | B (500) |
| LQW18AN_80 | 1.15 | 1.9 | 1.1 max. | D (4000) | J (10000) | B (500) |
| LQW18AS_00 | 1.06 | 1.86 | 1.1 max. | D (4000) | J (10000) | B (500) |

Embossed Tape

| Part Number | Dimensions | | Depth of Cavity | Packaging Code (Minimum Qty. (pcs.)) | | |
|----------------|------------|------|-----------------|--------------------------------------|-----------------|----------------|
| | a | b | с | ø180mm reel | ø330mm reel | Bulk |
| LQP02HQ | 0.24 | 0.46 | 0.34 max. | L (30000) | — | B (500) |
| LQH31H, LQW31H | 1.9 | 3.6 | 2.0 | L (2000) | K (7500) | — |
| LQW21H | 1.55 | 2.3 | 1.1 | L (3000) | — | B (500) |
| LQW2BH | 1.75 | 2.3 | 2.0 | L (2000) | K (7500) | — |
| LQW2BA | 1.8 | 2.3 | 1.65 | L (2000) | — | — |
| LQW2UA | 2.7 | 2.8 | 2.15 | L (2000) | — | _ |

(in mm)

Minimum Quantity and 4mm Width Taping Dimensions



Embossed Tape

| Deut Mussele au | Dimensions | | Total Thickness of Tape | Packaging Code (Minimum Qty. (pcs.)) | | |
|-----------------|------------|------|-------------------------|--------------------------------------|-------------|----------------|
| Part Number | a | b | с | ø180mm reel | ø330mm reel | Bulk |
| LQP02HQ | 0.24 | 0.46 | 0.34 max. | L (30000) | — | B (500) |
| LQP02TN | 0.21 | 0.43 | 0.23 max. | L (40000) | — | B (500) |
| LQP02TQ | 0.22 | 0.47 | 0.23 max. | L (40000) | | B (500) |

(in mm)