

## ● Part Numbering

### Chip Inductors (Chip Coils)(SMD)

(Part Number)

|           |          |           |          |          |            |          |          |          |          |
|-----------|----------|-----------|----------|----------|------------|----------|----------|----------|----------|
| <b>LQ</b> | <b>H</b> | <b>32</b> | <b>M</b> | <b>N</b> | <b>331</b> | <b>K</b> | <b>2</b> | <b>3</b> | <b>L</b> |
| ①         | ②        | ③         | ④        | ⑤        | ⑥          | ⑦        | ⑧        | ⑨        | ⑩        |

#### ① Product ID

| Product ID |                             |
|------------|-----------------------------|
| <b>LQ</b>  | Chip Inductors (Chip Coils) |

#### ② Structure

| Code     | Structure                                  |
|----------|--|
| <b>G</b> | Multilayer Type (Air-core Inductor (Coil)) |
| <b>H</b> | Wire Wound Type (Ferrite Core)             |
| <b>M</b> | Multilayer Type (Ferrite Core)             |
| <b>P</b> | Film Type                                  |
| <b>W</b> | Wire Wound Type (Air-core Inductor (Coil)) |
|          | Wire Wound Type (Ferrite Core)             |

#### ③ Dimensions (L×W)

| Code      | Dimensions (L×W)     | EIA   |
|-----------|----------------------|-------|
| <b>02</b> | 0.4×0.2mm            | 01005 |
| <b>03</b> | 0.6×0.3mm            | 0201  |
| <b>04</b> | 0.8×0.4mm            | 03015 |
| <b>15</b> | 1.0×0.5mm            | 0402  |
| <b>18</b> | 1.6×0.8mm            | 0603  |
| <b>21</b> | 2.0×1.25mm           | 0805  |
| <b>2B</b> | 2.0×1.5mm            | 0805  |
| <b>2M</b> | 2.0×1.6mm            | 0806  |
| <b>2H</b> | 2.5×2.0mm            | 1008  |
| <b>2U</b> | 2.5×2.0mm            | 1008  |
| <b>3N</b> | 3.0×3.0mm            | 1212  |
| <b>31</b> | 3.2×1.6mm            | 1206  |
| <b>32</b> | 3.2×2.5mm            | 1210  |
| <b>43</b> | 4.5×3.2mm            | 1812  |
| <b>44</b> | 4.0×4.0mm            | 1515  |
| <b>5B</b> | 5.0×5.0mm            | 2020  |
| <b>55</b> | 5.7×5.0mm/5.87×5.2mm | 2220  |
| <b>6P</b> | 6.0×6.0mm            | 2424  |
| <b>66</b> | 6.3×6.3mm            | 2525  |
| <b>88</b> | 8.0×8.0mm            | 3131  |

#### ④ Applications and Characteristics

| Code     | Series         | Applications and Characteristics          |
|----------|----------------|---|
| <b>H</b> | <b>LQG</b>     | Multilayer Air-core Inductor (Coil)       |
| <b>N</b> | <b>LQM</b>     | for Resonant Circuit                      |
| <b>D</b> |                | for Choke (Low-current DC Power Supplies) |
| <b>F</b> |                | for Choke (DC Power Supplies)             |
| <b>M</b> | <b>LQP</b>     | Film Type                                 |
| <b>T</b> |                | Film Type (Low DC Resistance Type)        |
| <b>A</b> | <b>LQW</b>     | High Q Type (UHF-SHF)                     |
| <b>H</b> |                | High Q Type (VHF-UHF)                     |
| <b>C</b> |                | for Choke                                 |
| <b>N</b> | <b>LQH</b>     | for Resonant Circuit                      |
| <b>M</b> |                | for Resonant Circuit (Coating Type)       |
| <b>D</b> |                | for Choke                                 |
| <b>C</b> |                | for Choke (Coating Type)                  |
| <b>S</b> |                | for Choke (Magnetically Shielded Type)    |
| <b>H</b> |                | for High-frequency Resonant Circuit       |
| <b>P</b> | <b>LQM/LQH</b> | for Power Line                            |

#### ⑤ Category

| Code     | Category      |
|----------|---------------|
| <b>N</b> | Standard Type |
| <b>S</b> |               |


#### ⑥ Inductance

Expressed by three-digit alphanumerics. The unit is micro-henry ( $\mu\text{H}$ ). The first and second figures are significant digits, and the third figure expresses the number of zeros which 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.

#### ⑦ Inductance Tolerance

| Code     | Inductance Tolerance |
|----------|----------------------|
| <b>B</b> | $\pm 0.1\text{nH}$   |
| <b>C</b> | $\pm 0.2\text{nH}$   |
| <b>D</b> | $\pm 0.5\text{nH}$   |
| <b>G</b> | $\pm 2\%$            |
| <b>H</b> | $\pm 3\%$            |
| <b>J</b> | $\pm 5\%$            |
| <b>K</b> | $\pm 10\%$           |
| <b>M</b> | $\pm 20\%$           |
| <b>N</b> | $\pm 30\%$           |
| <b>S</b> | $\pm 0.3\text{nH}$   |
| <b>W</b> | $\pm 0.05\text{nH}$  |

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(Part Number) **LQ H 32 M N 331 K 2 3 L**  
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

⑧ Features (Except LQH□□P/LQM□□P)

| Code | Features                                 | Series                  |
|------|--|-------------------------|
| 0    | Standard Type                            | LQG/LQP/LQW/LQM*1/LQH*2 |
| 1    | High-Q/<br>Low DC Resistance             | LQW15A/18A/2BH          |
|      | Standard Type                            | LQM21N                  |
| 2    | Standard Type                            | LQH32C/32M              |
| 3    | Low DC Resistance                        | LQH32C                  |
| 5    | Low Profile Type                         | LQH2MC/32C              |
| 7    | Large Current Type                       | LQM21F                  |
| 8    | Low DC Resistance<br>/Large Current Type |                         |

\*1 Except LQM21N Series

\*2 Except LQH32 Series

⑧ Thickness (LQH□□P/LQM□□P Only · Except LQH6PP/LQH88P)

| Code | Dimensions (T) |
|------|----------------|
| C    | 0.5mm          |
| E    | 0.7mm          |
| 0    | 0.85mm         |
| G    | 0.9mm          |
| J    | 1.1mm          |
| M    | 1.4mm          |
| N    | 1.55mm         |
| P    | 1.65mm         |
| R    | 1.85mm         |
| T    | 2.0mm          |

⑩ Packaging

| Code | Packaging                     | Series  |
|------|-------------------------------|---|
| K    | Embossed Taping (ø330mm Reel) | LQH*1 /LQW□□H*6 /LQM31F/LQM21*2                                   |
| L    | Embossed Taping (ø180mm Reel) | LQH/LQW2BA/LQW2UA/LQW□□H/LQM31F/LQM21*2 /LQM31P/<br>LQM2HP/LQM2MP |
| B    | Bulk                          | LQH2MC/LQW/LQG/LQM/LQP  |
| J    | Paper Taping (ø330mm Reel)    | LQW18A/LQG/LQM18/LQM21*3 /LQP*5                                   |
| D    | Paper Taping (ø180mm Reel)    | LQW□□A*7/LQW18C/LQG/LQM18/LQM21*4 /LQP                            |

\*1 Except LQH2MC/LQH32P/LQH3NP/LQH43C

\*2 LQM21D(22 - 47μH)/LQM21F(4.7 - 47μH)/LQM21N(2.7 - 4.7μH) only.

\*3 LQM21D(1.0 - 10μH)/LQM21F(1.0 - 2.2μH)/LQM21N(0.1 - 2.2μH) only.

\*4 LQM21D(1.0 - 10μH)/LQM21F(1.0 - 2.2μH)/LQM21N(0.1 - 2.2μH)/LQM21P only.

\*5 Except LQP02T/15T

\*6 Except LQW21H

\*7 Except LQW2BA/LQW2UA

⑨ Electrode (Except LQH□□P/LQM□□P)

•Lead (Pb) Free

| Code | Electrode | Series  |
|------|-----------|---|
| 0    | Sn        | LQG18H/LQP03T/LQW□□A/<br>LQW□□C/LQM           |
| 2    |           | LQG15H/LQP02T/LQP03T/LQP15T/<br>LQP□□M/LQH2MC |
| 3    | LF Solder | LQW□□H/LQH (Except LQH2MC)                    |
| 4    | Au        | LQP03T  |

⑨ Specification (LQH□□P/LQM□□P Only · Except LQH6PP/LQH88P)

| Code | Specification                          |
|------|--|
| 0    | Standard Type                          |
| C    | Good Bias Current Characteristics Type |

⑧⑨ Thickness (LQH6PP/LQH88P Only)

| Code | Dimension (T) |
|------|---------------|
| 38   | 3.8mm         |
| 43   | 4.3mm         |