

Wire-wound Ferrite Bead Inductors for Power Lines LCMC/LCMG series for Automotive Body & Chassis and Infotainment

Code in front of Series have been extracted from Part number, which describes the segment of products, such as kinds and characteristics.

AEC-Q200 Grade 3 (we conduct the evaluation at the test condition of Grade 3.)

*Operating environment Temp:-40~85°C

REFLOW

AEC-Q200

PART NUMBER

*Operating Temp. : -40~125°C (Including self-generated heat)

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
| L | C | M | C | C | 3 | 2 | 1 | 6 | 1 | 1 | T | 8 | 0 | 0 | R | G | |
| ① | ② | ③ | ④ | ⑤ | ⑥ | ⑦ | ⑧ | | | | | | | | | | |

①Series

| Code (1)(2)(3)(4) | |
|----------------------|--|
| LCMC | Wire-wound Ferrite Bead Inductors for Power Lines for Automotive Body & Chassis and Infotainment |
| LCMG | Wire-wound Ferrite Bead Inductors for Power Lines for Automotive Body & Chassis and Infotainment |

(1) Product Group

| Code | |
|------|-----------|
| L | Inductors |

(2) Category

| Code | Recommended equipment | Quality Grade |
|------|---|---------------|
| C | Automotive Electronic Equipment (Body & Chassis, Infotainment) | 2 |

②Features

| Code | Feature |
|------|------------------|
| A | Standard (20MHz) |
| C | Wave-shaping |
| G | For GHz noise |

③Dimensions (L × W)

| Code | Type (inch) | Dimensions (L × W) [mm] |
|------|-------------|----------------------------|
| 1608 | 1608 (0603) | 1.6 × 0.8 |
| 2012 | 2012 (0805) | 2.0 × 1.25 |
| 2016 | 2016 (0806) | 2.0 × 1.6 |
| 3216 | 3216 (1206) | 3.2 × 1.6 |
| 3225 | 3225 (1210) | 3.2 × 2.5 |
| 4516 | 4516 (1806) | 4.5 × 1.6 |
| 4525 | 4525 (1810) | 4.5 × 2.5 |

④Dimensions (T)

| Code | Dimensions (T) [mm] |
|------|---------------------|
| 08 | 0.8 |
| | 0.85 |
| 11 | 1.1 |
| 16 | 1.6 |
| 25 | 2.5 |

(3) Type

| Code | |
|------|-------------------------|
| M | Ferrite Wire-wound bead |

(4) Features, Characteristics

| Code | |
|------|----------------|
| C | High current |
| G | High frequency |

⑤Packaging

| Code | Packaging |
|------|-----------|
| T | Taping |

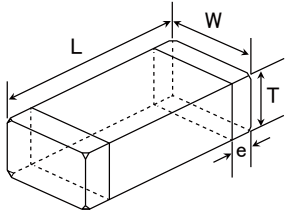
⑥Nominal impedance

| Code (example) | Nominal impedance [Ω] |
|-------------------|-----------------------|
| 330 | 33 |
| 221 | 220 |
| 102 | 1000 |

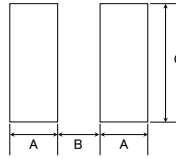
⑦Impedance tolerance

| Code | Impedance tolerance |
|------|---------------------|
| R | ±25% |
| N | ±30% |

⑧Internal code

STANDARD EXTERNAL DIMENSIONS / STANDARD QUANTITY

Recommended Land Patterns
Surface Mounting

• Mounting and soldering conditions should be checked beforehand.



| Type | A | B | C |
|------|------|-----|------|
| 1608 | 1.0 | 1.0 | 1.0 |
| 2012 | 1.4 | 1.2 | 1.65 |
| 2016 | 1.4 | 1.2 | 2.0 |
| 3216 | 1.4 | 2.2 | 2.0 |
| 3225 | 1.4 | 2.2 | 2.9 |
| 4516 | 1.75 | 3.5 | 2.0 |
| 4525 | 1.75 | 3.5 | 2.9 |

Unit: mm

| Type | L | W | T | e | Standard quantity [pcs] | |
|---------------------|--------------------------|---------------------------|---------------------------|---------------------------|-------------------------|---------------|
| | | | | | Paper tape | Embossed tape |
| 160808 *1 (0603) | 1.6±0.2 (0.063±0.008) | 0.8±0.2 (0.031±0.008) | 0.8±0.2 (0.031±0.008) | 0.3±0.2 (0.012±0.008) | 4000 | — |
| 160808 *2 (0603) | 1.6±0.1 (0.063±0.004) | 0.8±0.1 (0.031±0.004) | 0.8±0.1 (0.031±0.004) | 0.3±0.15 (0.012±0.006) | 4000 | — |
| 201208 (0805) | 2.0±0.2 (0.079±0.008) | 1.25±0.2 (0.049±0.008) | 0.85±0.2 (0.033±0.008) | 0.5±0.3 (0.020±0.012) | 4000 | — |
| 201616 (0806) | 2.0±0.2 (0.079±0.008) | 1.6±0.2 (0.063±0.008) | 1.6±0.2 (0.063±0.008) | 0.5±0.3 (0.020±0.012) | — | 2000 |
| 321611 (1206) | 3.2±0.3 (0.126±0.012) | 1.6±0.2 (0.063±0.008) | 1.1±0.2 (0.043±0.008) | 0.5±0.3 (0.020±0.012) | — | 2000 |
| 321616 (1206) | 3.2±0.3 (0.126±0.012) | 1.6±0.2 (0.063±0.008) | 1.6±0.2 (0.063±0.008) | 0.5±0.3 (0.020±0.012) | — | 2000 |
| 322525 (1210) | 3.2±0.3 (0.126±0.012) | 2.5±0.3 (0.098±0.012) | 2.5±0.3 (0.098±0.012) | 0.5±0.3 (0.020±0.012) | — | 1000 |
| 451611 (1806) | 4.5±0.3 (0.177±0.012) | 1.6±0.2 (0.063±0.008) | 1.1±0.2 (0.043±0.008) | 0.5±0.3 (0.020±0.012) | — | 2000 |
| 451616 (1806) | 4.5±0.3 (0.177±0.012) | 1.6±0.2 (0.063±0.008) | 1.6±0.2 (0.063±0.008) | 0.5±0.3 (0.020±0.012) | — | 2000 |
| 452525 (1810) | 4.5±0.4 (0.177±0.016) | 2.5±0.3 (0.098±0.012) | 2.5±0.3 (0.098±0.012) | 0.9±0.6 (0.035±0.024) | — | 1000 |

*1 LCMC, *2 LCMG

Unit: mm (inch)