

# LQG15WHR12H02D

“#”at the end indicates the package specification code.

Size Code 1005 (0402) in mm (in inch),Multilayer Type,High Q, Automotive available (Powertrain/Safety)

In Production

AEC-Q200

RoHS

REACH

125 °C max.

Multi-layer

High Q

Reflow OK

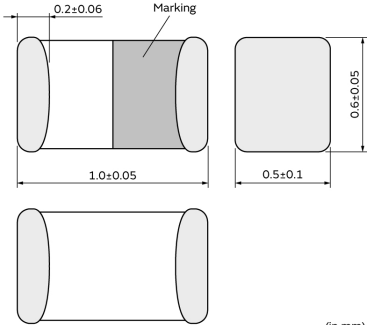
## < List of part numbers with package codes >

LQG15WHR12H02B                      LQG15WHR12H02D                      LQG15WHR12H02J

## Applications

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unsuitable Applications  | Please be sure to read and comply with these "Precautions for use."                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Specific Applications    | <p>Consumer equipment,Automotive infotainment/comfort equipment, Automotive powertrain/safety equipment, Medical equipment [GHTF A/B/C] except for implant &amp; surgery &amp; auto injector,Industrial Equipment</p> <p>Please refer to Our Website and specifications, etc. for information about the performance, functions, quality, management, and safety required for the above applications, and use Products after confirming the performance and reliability of the actual Product.</p> |
| Recommended Applications | Automotive powertrain/safety equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Appearance & Shape



(in mm)

### Attention

- 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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## References

| Packaging | Specifications   | Standard Packing Quantity |
|-----------|------------------|---------------------------|
| B         | Bulk(Bag)        | 100                       |
| D         | 180mm Paper Tape | 10000                     |
| J         | 330mm Paper Tape | 40000                     |

| Mass (typ.) |        |
|-------------|--------|
| 1 piece     | 0.001g |

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## Specifications

|                                                                          |                |
|--------------------------------------------------------------------------|----------------|
| L size                                                                   | 1.0±0.05mm     |
| W size                                                                   | 0.6±0.05mm     |
| T size                                                                   | 0.5±0.1mm      |
| Size code inch (mm)                                                      | 0402 (1005)    |
| Inductance                                                               | 120nH±3%       |
| Inductance Test Frequency                                                | 100MHz         |
| Rated current (Itemp)<br>(Based on Temperature rise)                     | 140mA          |
| Max. of DC resistance                                                    | 2.7Ω           |
| Operating Temperature<br>Range(Self-temperature rise<br>is not included) | -55°C to 125°C |
| Class of magnetic shield                                                 | Non-Shielded   |
| Q(min.)                                                                  | 22             |
| Q Test Frequency                                                         | 250MHz         |
| Self resonance frequency<br>(min.)                                       | 800MHz         |
| Brand                                                                    | Murata         |
| Series                                                                   | LQG15WH_02     |

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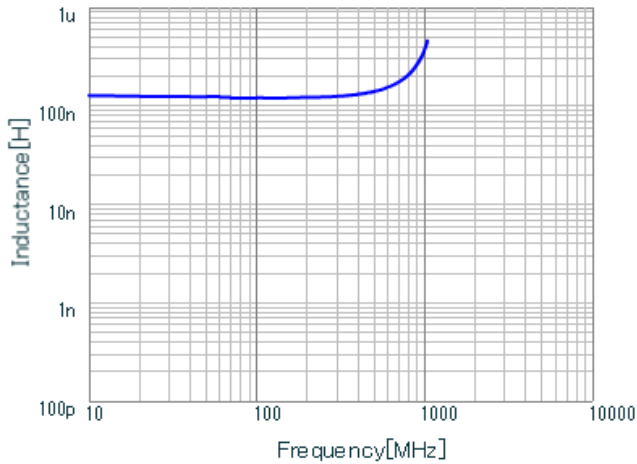
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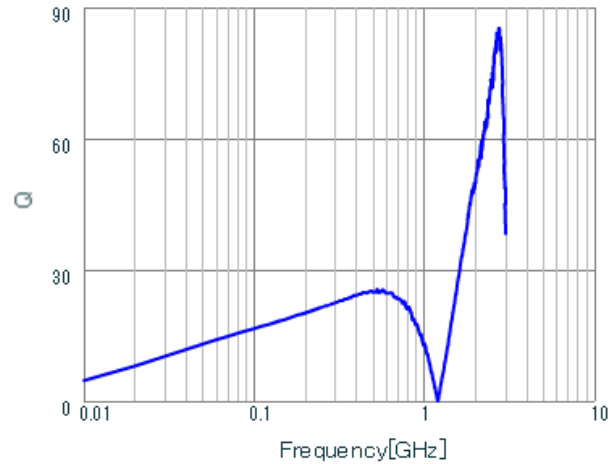


## Characteristic Data



LQG15WHR12H02 L.

Inductance - Frequency Characteristics



LQG15WHR12H02 Q.

Q-Frequency Characteristics

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