

# LQW18CNR27J0Z#

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

For Power Choke

In Production

AEC-Q200

RoHS

REACH

125 °C max.

Wound (Ferrite)

Reflow OK

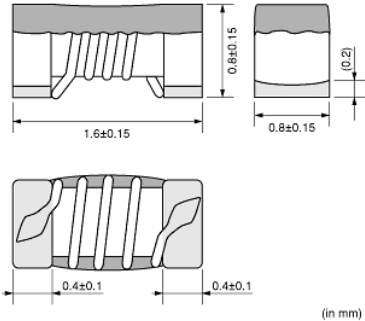
< List of part numbers with package codes >

LQW18CNR27J0ZB      LQW18CNR27J0ZD      LQW18CNR27J0ZJ

## Applications

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unsuitable Applications  | Please be sure to read and comply with these "Precautions for use."                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Specific Applications    | <p>Consumer equipment, Automotive infotainment/comfort equipment, Medical equipment [GHTF A/B/C] except for implant &amp; surgery &amp; auto injector, Industrial equipment except for transportation &amp; facility &amp; energy 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 infotainment/comfort equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

## Appearance & Shape



**Attention**

1.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.  
2.This datasheet has only typical specifications because there is no space for detailed specifications.  
Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

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## References

| Packaging | Specifications   | Standard Packing Quantity |
|-----------|------------------|---------------------------|
| B         | Bulk(Bag)        | 500                       |
| D         | 180mm Paper Tape | 4000                      |
| J         | 330mm Paper Tape | 10000                     |

| Mass (typ.) |        |
|-------------|--------|
| 1 piece     | 0.004g |

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## Specifications

|                                                                          |                |
|--------------------------------------------------------------------------|----------------|
| L size                                                                   | 1.6±0.15mm     |
| W size                                                                   | 0.8±0.15mm     |
| T size                                                                   | 0.8±0.15mm     |
| Size code inch (mm)                                                      | 0603 (1608)    |
| Inductance                                                               | 270nH±5%       |
| Inductance Test Frequency                                                | 10MHz          |
| Rated current (Itemp)<br>(Based on Temperature rise)                     | 750mA          |
| Max. of DC resistance                                                    | 0.16Ω          |
| Operating Temperature<br>Range(Self-temperature rise<br>is not included) | -40°C to 125°C |
| Class of magnetic shield                                                 | Non-Shielded   |
| Self resonance frequency<br>(min.)                                       | 660MHz         |
| Brand                                                                    | Murata         |
| Series                                                                   | LQW18CN_0Z     |

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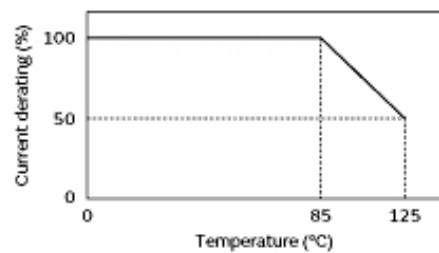


## Notice For General

In operating temperatures exceeding +85°C, derating of current is necessary for this series.

Please apply the derating curve shown in the chart according to the operating temperature.

### Derating of Rated Current



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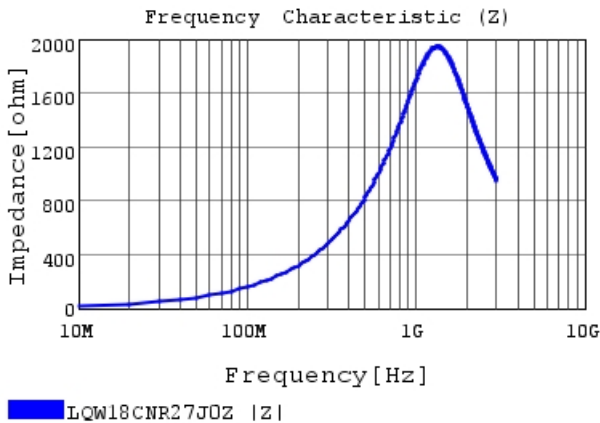
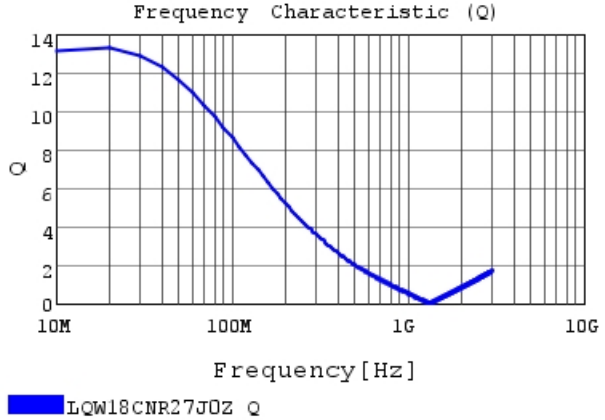
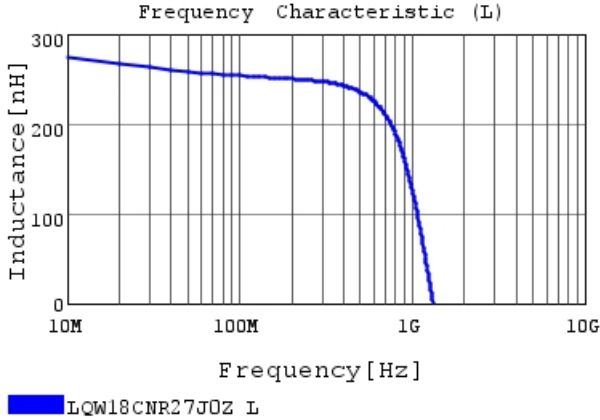
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## Characteristic Data

The charts below may show another part number which shares its characteristics.



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