

# LQW15AN5N7C8Z#

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

0402(inch)/1005(mm) size, wound inductor.



## < List of part numbers with package codes >

LQW15AN5N7C8ZB      LQW15AN5N7C8ZD

## Applications

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

## Appearance & Shape



## References

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

| Mass (typ.) |         |
|-------------|---------|
| 1 piece     | 0.0009g |

### Attention

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2. This datasheet has only typical specifications because there is no space for detailed specifications.

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## Specifications

|                                                                          |                |
|--------------------------------------------------------------------------|----------------|
| L size                                                                   | 1.0±0.1mm      |
| W size                                                                   | 0.6±0.1mm      |
| T size                                                                   | 0.5±0.1mm      |
| Size code inch (mm)                                                      | 0402 (1005)    |
| Inductance                                                               | 5.7nH±0.2nH    |
| Inductance Test Frequency                                                | 100MHz         |
| Rated current (Itemp)<br>(Based on Temperature rise)                     | 1770mA         |
| Max. of DC resistance                                                    | 0.04Ω          |
| Operating Temperature<br>Range(Self-temperature rise<br>is not included) | -55°C to 125°C |
| Class of magnetic shield                                                 | Non-Shielded   |
| Q(min.)                                                                  | 30             |
| Q Test Frequency                                                         | 250MHz         |
| Self resonance frequency<br>(min.)                                       | 8GHz           |
| Brand                                                                    | Murata         |
| Series                                                                   | LQW15AN_8Z     |

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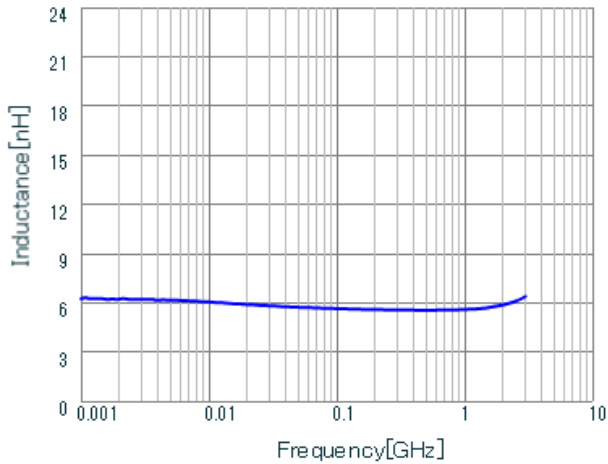
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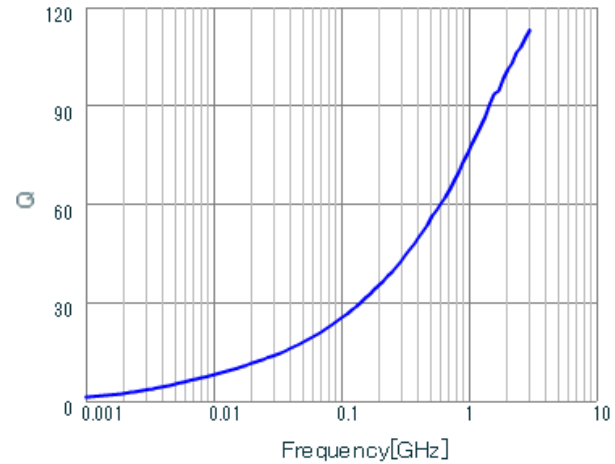
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## Characteristic Data



LQW15AN5N7C8Z L.



LQW15AN5N7C8Z Q.

Inductance - Frequency Characteristics

Q-Frequency Characteristics

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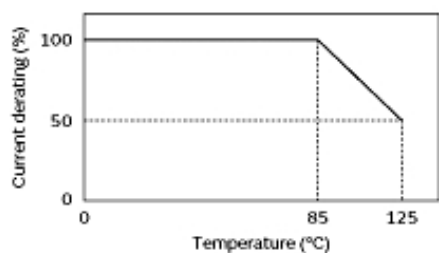
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## Notice For General

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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