

Note: This datasheet may be out of date. Please download the latest datasheet of LQW18AN12NJ8Z# from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en-sg/products/productdetail?partno=LQW18AN12NJ8Z%23

"#"at the end indicates the package specification code.

RF inductor with low DC resistance and large current capacity

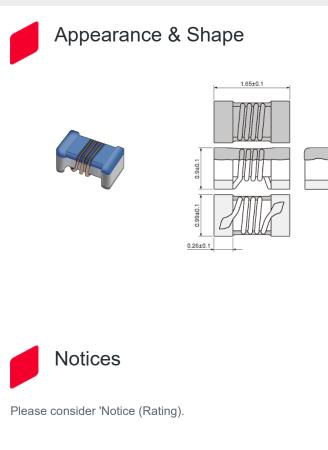
LQW18AN12NJ8Z#



< List of part numbers with package codes > LQW18AN12NJ8ZB LQW18AN12NJ8ZD LQW18AN12NJ8ZJ

Applications

| Linevitelele | Discos he sume to used and somethy with |
|--|--|
| Unsuitable | Please be sure to read and comply with |
| Applications | these "Precautions for use." |
| Applications Specific Applications | Consumer equipment,Automotive infotainment/comfort equipment,Medical equipment [GHTF A/B/C] except for implant & surgery & auto injector, Industrial equipment except for transportation & facility & energy equipment 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 | Automotive infotainment/comfort |
| Applications | equipment |



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(in mm)



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References

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

| Mass (typ.) | |
|-------------|---------|
| 1 piece | 0.0034g |

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Specifications

| L size | 1.65±0.1mm |
|--|--------------|
| W size | 0.99±0.1mm |
| T size | 0.9±0.1mm |
| Size code inch (mm) | 0603 (1608) |
| Inductance | 12nH±5% |
| Inductance Test Frequency | 100MHz |
| Rated current (Itemp) (Based on Temperature rise) | 1500mA |
| Max. of DC resistance | 0.064Ω |
| Operating Temperature Range(Self-temperature rise is not included) | -55℃ to 125℃ |
| Class of magnetic shield | Non-Shielded |
| Q(min.) | 37 |
| Q Test Frequency | 250MHz |
| Self resonance frequency (min.) | 5000MHz |
| Brand | Murata |
| Series | LQW18AN_8Z |

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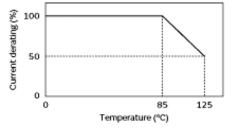
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In operating temperatures exceeding +85°C, derating of current is necessary for this series. Please apply the derating curve shown in the chart according to the operating temperature.

Derating of Rated Current



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Product Search Data Sheet

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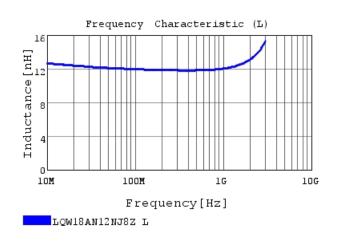
http://www.murata.com/en-sg/products/productdetail?partno=LQW18AN12NJ8Z%23

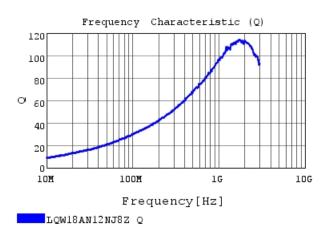
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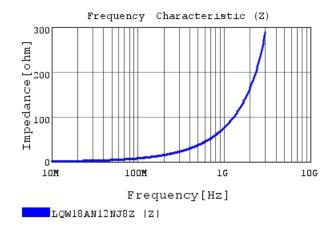
Characteristic Data

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







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