

# LQW32FT220M0H#

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

Wide frequency band, high inductance, for power line.



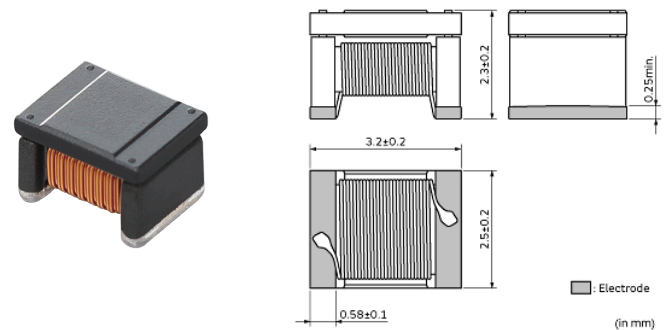
## < List of part numbers with package codes >

LQW32FT220M0HB LQW32FT220M0HL

## Applications

|                          |  |
|--------------------------|--|
| Unsuitable Applications  | Please be sure to read and comply with these "Precautions for use."  |
| Specific Applications    | Consumer equipment, Automotive infotainment/comfort equipment, Automotive powertrain/safety equipment, Medical equipment [GHTF A/B/C] except for implant & surgery & auto injector, Industrial 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 powertrain/safety equipment, PoC [Power over Coax]  |

## Appearance & Shape



## Notices

Please consider 'Notice (Rating)'. When rated current is applied to the products, inductance will be within  $\pm 30\%$  of nominal inductance. Keep the temperature (ambient temperature plus self-generation of heat) under 125°C. When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max. Rated current is derated as following figure depending on the operating temperature.

### Attention

1. This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, its 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                       |
| L         | 180Embossed Tape | 1500                      |

| Mass (typ.) |        |
|-------------|--------|
| 1 piece     | 0.073g |

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## Specifications

|   |  |
|---|--|
| L size  | 3.2±0.2mm  |
| W size  | 2.5±0.2mm  |
| T size  | 2.3±0.2mm  |
| Size code inch (mm)                               | 1210 (3225)  |
| Inductance  | 22μH±20%   |
| Inductance Test Frequency                         | 1MHz   |
| Rated current (Isat) (Based on Inductance change) | 400mA  |
| Rated current (Itemp) (Based on Temperature rise) | 550mA(Ambient temp.85°C)<br>500mA(Ambient temp.105°C)<br>280mA(Ambient temp.125°C) |
| Max. of DC resistance                             | 0.62Ω  |
| Class of magnetic shield                          | Shielded (Ferrite Core)  |
| Self resonance frequency (min.)                   | 50MHz  |
| Brand   | Murata   |
| Operating Temperature Range                       | -40°C to 125°C   |
| Series  | LQW32FT_0H   |

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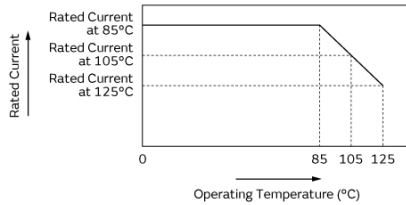


## Notice For General

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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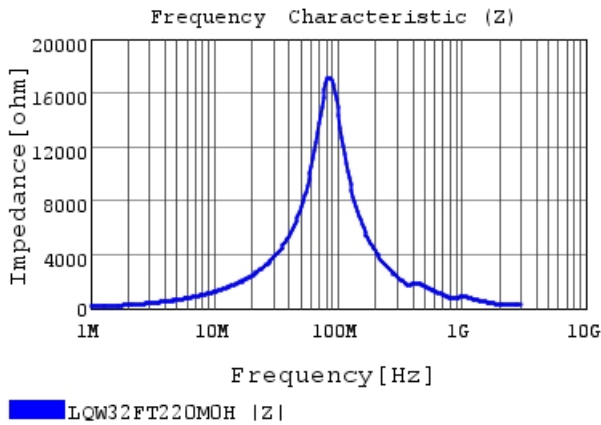
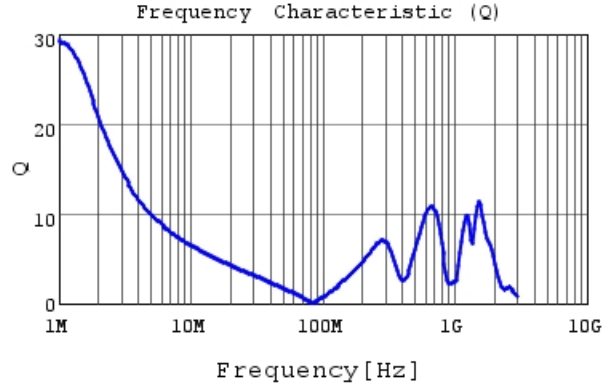
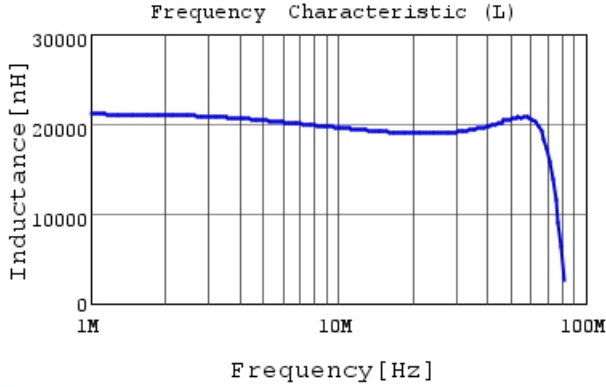
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## Characteristic Data

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



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