

# LQH32PHR47NN0#

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

Size code 1210(3225)in inch(in mm),1.7mm max. Thickness, 125°C Operation Available

In Production

AEC-Q200

RoHS

REACH

125°C max.

Wound (Ferrite)

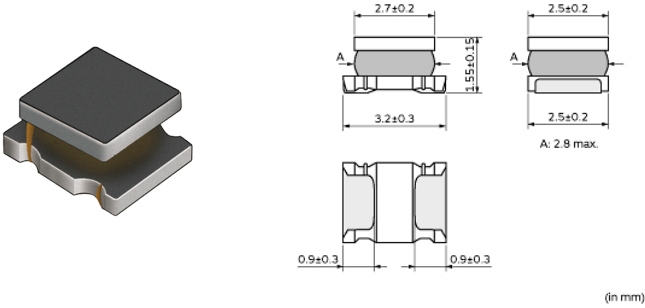
Reflow OK

< List of part numbers with package codes >  
LQH32PHR47NN0K                      LQH32PHR47NN0L

## 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



**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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## Notices

When rated current is applied to the products, inductance will be within  $\pm 30\%$  of nominal inductance value. When rated current is applied to the products, temperature rise caused by self-generated heat shall be limited to 40°C max (ambient temperature 85°C max). When rated current is applied to the products, temperature rise caused by self-generated heat shall be limited to 20°C max (ambient temperature 85°C to 105°C). Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

## References

| Packaging | Specifications    | Standard Packing Quantity |
|-----------|-------------------|---------------------------|
| K         | 330 Embossed Tape | 7500                      |
| L         | 180 Embossed Tape | 2000                      |

| Mass (typ.) |        |
|-------------|--------|
| 1 piece     | 0.044g |

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## Specifications

|  |  |
|--|--|
| L size   | 3.2±0.3mm  |
| W size   | 2.5±0.2mm  |
| T size   | 1.55±0.15mm  |
| Size code inch (mm)  | 1210 (3225)  |
| Inductance   | 0.47μH±30%   |
| Inductance Test Frequency  | 1MHz   |
| Rated current (Isat) (Based on Inductance change)                  | 3400mA   |
| Rated current (Itemp) (Based on Temperature rise)                  | 2550mA(Ambient temp.85°C)<br>1600mA(Ambient temp. 105°C) |
| Max. of DC resistance  | 0.036Ω   |
| DC resistance  | 0.030Ω±20%   |
| Operating Temperature Range (Self-temperature rise is included)    | -40°C to 125°C   |
| Operating Temperature Range(Self-temperature rise is not included) | -40°C to 105°C   |
| Class of magnetic shield   | Shielded (Magnetic Resin)                                |
| Self resonance frequency (min.)                                    | 100MHz   |
| Brand  | Murata   |
| Series   | LQH32PH_N0   |

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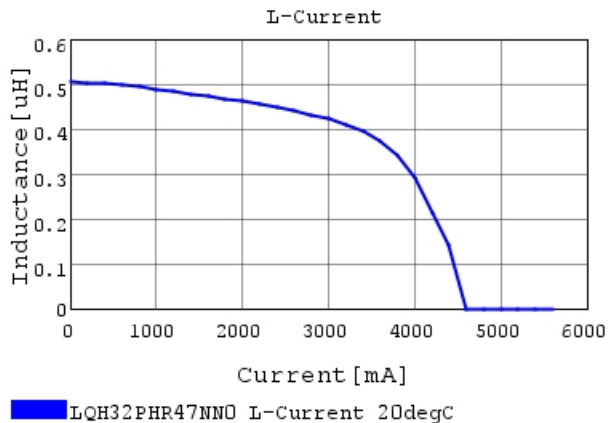
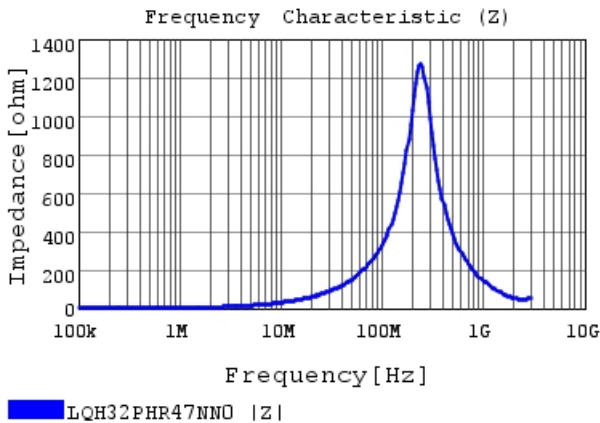
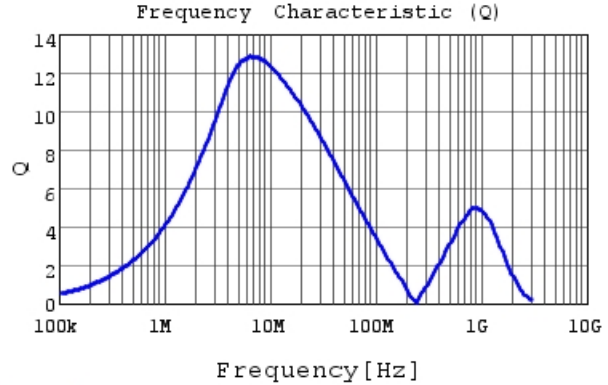
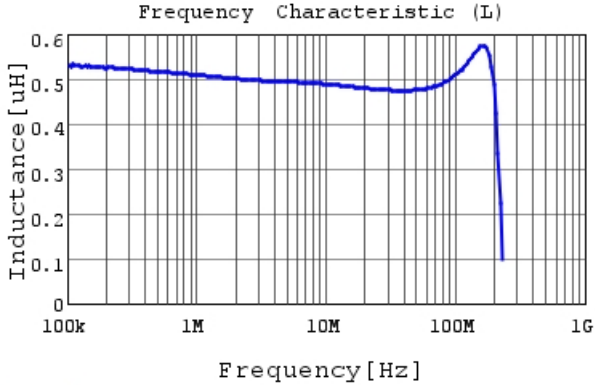
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## Characteristic Data

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



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