

# MDH7045C-3R3NB#

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

Superior vibration proof capability



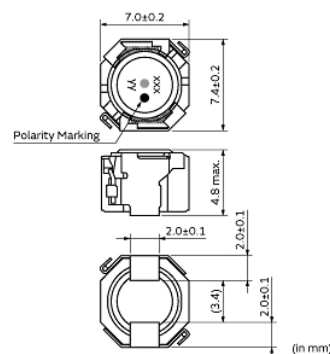
< List of part numbers with package codes >

MDH7045C-3R3NB=P3

## 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                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## Appearance & Shape



## Notices

The saturation allowable DC current value is specified when the decrease of the nominal inductance value at 30%. Rated current (based on temperature rise) is specified when temperature of the inductor on our PCB for test purpose is raised 40°C by DC current.

### 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 |
|-----------|------------------|---------------------------|
| =P3       | 330Embossed Tape | 1000                      |

| Mass (typ.) |       |
|-------------|-------|
| 1 piece     | 0.75g |

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## Specifications

|                                                                 |                         |
|-----------------------------------------------------------------|-------------------------|
| L size                                                          | 7.4±0.2mm               |
| W size                                                          | 7.0±0.2mm               |
| T size                                                          | 4.5±0.3mm               |
| Size code inch (mm)                                             | 2928 (7470)             |
| Inductance                                                      | 3.3μH±30%               |
| Inductance Test Frequency                                       | 0.1MHz                  |
| Rated current (Isat) (Based on Inductance change)               | 5A(Max.) / 6.2A(Typ.)   |
| Rated current (Itemp) (Based on Temperature rise)               | 3.4A(Max.) / 4.3A(Typ.) |
| Max. of DC resistance                                           | 0.0208Ω                 |
| DC resistance                                                   | 0.016Ω±30%              |
| Operating Temperature Range (Self-temperature rise is included) | -55°C to 150°C          |
| Class of magnetic shield                                        | Shielded (Ferrite Core) |
| Brand                                                           | Murata                  |
| Series                                                          | MDH7045C                |

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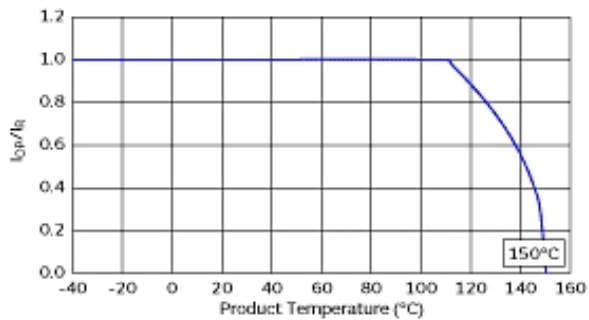
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## Notice For General

Max. current (DC, AC) as function of product temperature (derating curve).

Derating of Rated Current



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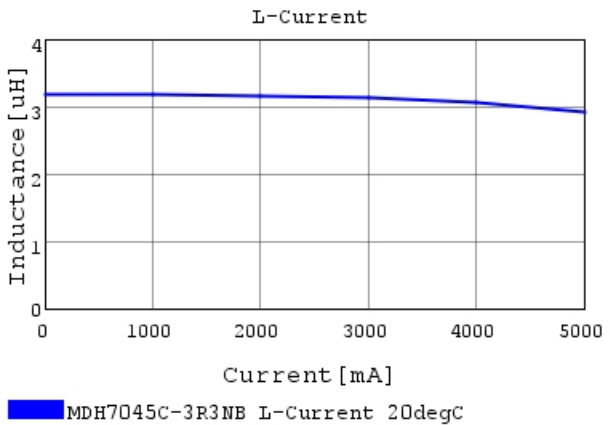
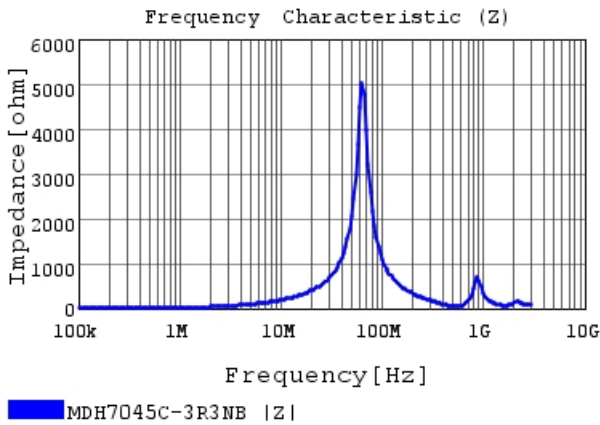
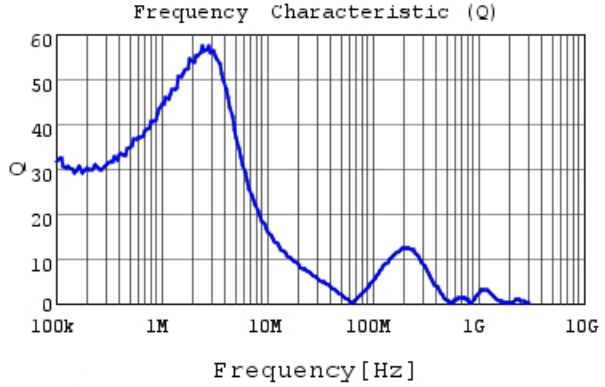
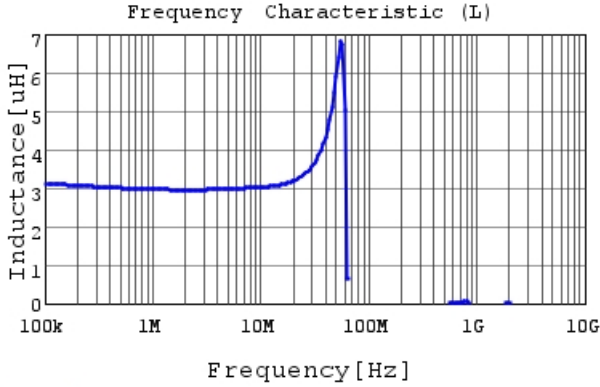
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## Characteristic Data

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

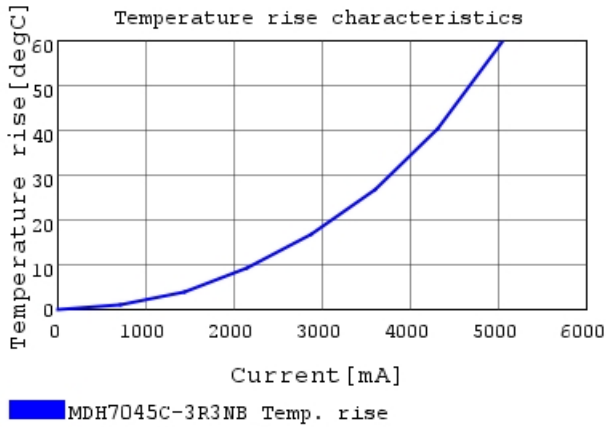


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