

# DFE252012PD-3R3M#

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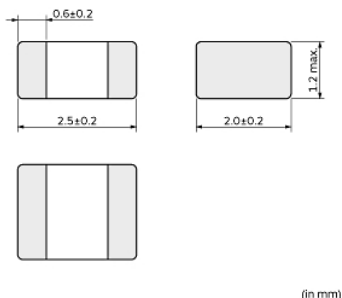
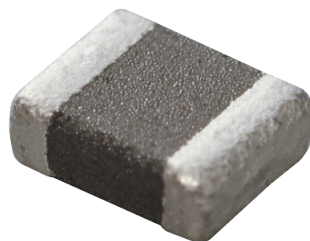


< List of part numbers with package codes >  
DFE252012PD-3R3M=P2

## 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 [GHTF 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



## Notices

Rated current ( $I_{sat}$ ) is specified when the decrease of the initial inductance value at 30%. Rated current ( $I_{temp}$ ) is specified when temperature of the inductor is raised 40°C by DC current.

## References

| Packaging | Specifications    | Standard Packing Quantity |
|-----------|-------------------|---------------------------|
| =P2       | 180 Embossed Tape | 3000                      |

| Mass (typ.) |         |
|-------------|---------|
| 1 piece     | 0.0284g |

### Attention

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## Specifications

|                                                                 |                         |
|-----------------------------------------------------------------|-------------------------|
| L size                                                          | 2.5±0.2mm               |
| W size                                                          | 2.0±0.2mm               |
| T size                                                          | 1.2mm                   |
| Size code inch (mm)                                             | 1008 (2520)             |
| Inductance                                                      | 3.3μH±20%               |
| Inductance Test Frequency                                       | 1MHz                    |
| Rated current (Isat) (Based on Inductance change)               | 2.1A(Max.) / 2.5A(Typ.) |
| Rated current (Itemp) (Based on Temperature rise)               | 1.7A(Max.) / 2A(Typ.)   |
| Max. of DC resistance                                           | 0.14Ω                   |
| DC resistance                                                   | 0.115Ω(Typ.)            |
| Operating Temperature Range (Self-temperature rise is included) | -40°C to 125°C          |
| Class of magnetic shield                                        | Shielded (Metal Alloy)  |
| Absolute maximum voltage                                        | 20Vdc                   |
| Brand                                                           | Murata                  |
| Series                                                          | DFE252012P_D            |

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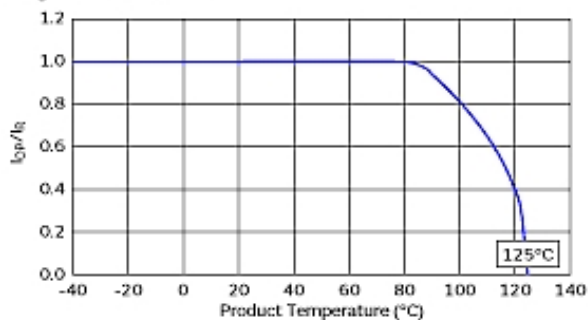
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## Notice For General

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

Derating of Rated Current



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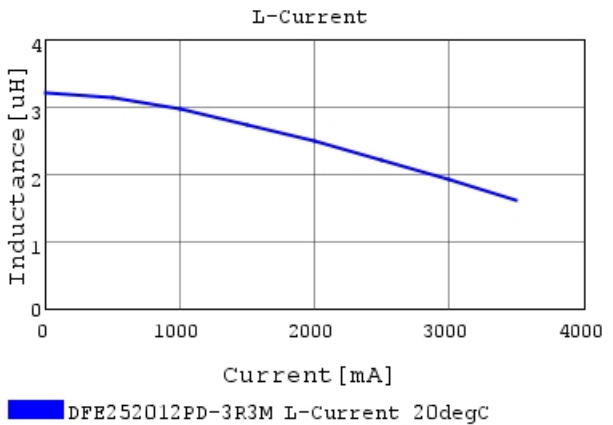
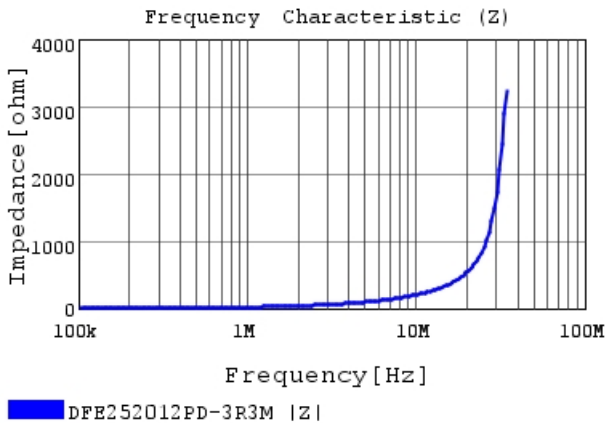
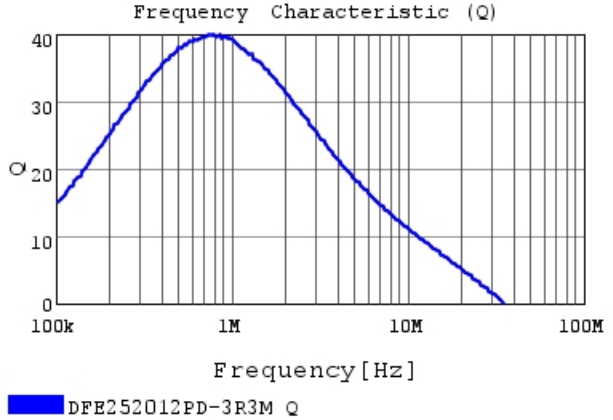
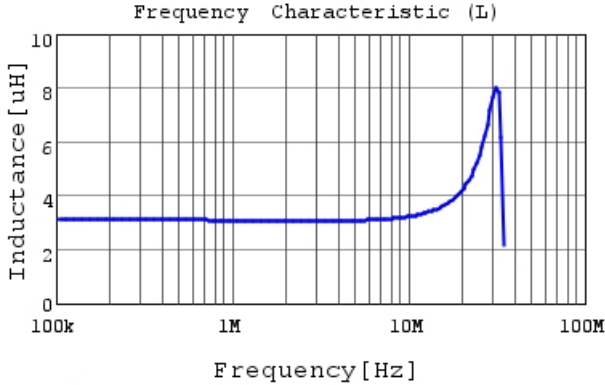
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## Characteristic Data

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

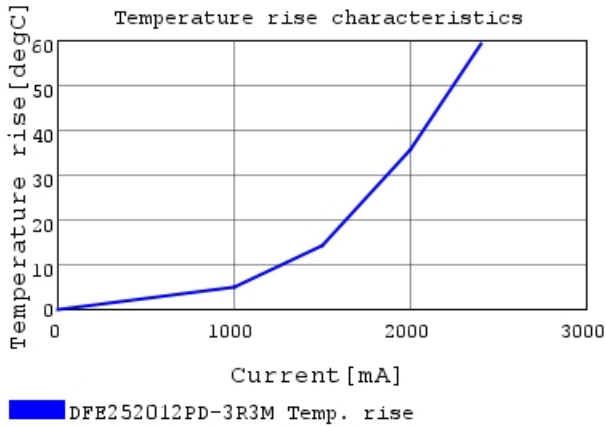


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