

Product Search Data Sheet

#B953AS-120M=P3

Note: This datasheet may be out of date. Please download the latest datasheet of #B953AS-120M=P3 from the official website of Murata Manufacturing Co., Ltd.

http://www.murata.com/en/products/productdetail?partno=%23B953AS-120M%3dP3



## Applications

| Unsuitable<br>ApplicationsPlease be sure to read and comply with<br>these "Precautions for use."Consumer equipment, Medical<br>equipment [GHTF A/B/C] except for<br>implant & surgery & auto injector,<br>Industrial equipment except for<br>transportation & facility & energy<br>equipmentSpecificPlease refer to Our Website and<br>specifications, etc. for information about<br>the performance, functions, quality,<br>management, and safety required for<br>the above applications, and use<br>Products after confirming the<br>performance and reliability of the actual<br>Product.Recommended<br>ApplicationsConsumer equipment  |              |  |
|---|--------------|--|
| Product of the second | Unsuitable   | Please be sure to read and comply with     |
| 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   Applications   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   Consumer equipment  | Applications | these "Precautions for use."               |
| Recommended Industrial equipment   Recommended Consumer equipment   |              | Consumer equipment,Medical                 |
| Recommended Industrial equipment except for   transportation & facility & energy equipment   Specific Please refer to Our Website and   Applications 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.   |              | equipment [GHTF A/B/C] except for          |
| Specific transportation & facility & energy   Applications 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   |              | implant & surgery & auto injector,         |
| Specific equipment   Applications 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  |              | Industrial equipment except for            |
| Specific Please refer to Our Website and   Applications 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 Consumer equipment   |              | transportation & facility & energy         |
| Applications 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 Consumer equipment  |              | equipment                                  |
| Recommended Consumer equipment  | Specific     | Please refer to Our Website and            |
| management, and safety required for   the above applications, and use   Products after confirming the   performance and reliability of the actual   Product.   Recommended   Consumer equipment   | Applications | specifications, etc. for information about |
| the above applications, and use   Products after confirming the   performance and reliability of the actual   Product.   Recommended   Consumer equipment   |              | the performance, functions, quality,       |
| Products after confirming the<br>performance and reliability of the actual<br>Product.     Recommended   Consumer equipment   |              | management, and safety required for        |
| performance and reliability of the actual<br>Product.     Recommended   Consumer equipment  |              | the above applications, and use            |
| Product.     Recommended   Consumer equipment   |              | Products after confirming the              |
| Recommended Consumer equipment  |              | performance and reliability of the actual  |
| Consumer equipment  |              | Product.                                   |
| Applications  | Recommended  | Canaumar aquinment                         |
|   | Applications |  |

Appearance & Shape



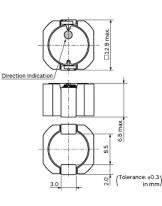
### Rated current (Isat) is specified when the decrease of the initial inductance value at 10%. Rated current (Itemp) is specified when temperature of the inductor is raised 40°C by DC current.



| Packaging | Specifications   | Standard<br>Packing |
|-----------|------------------|---------------------|
| 5 5       |                  | Quantity            |
| =P3       | 330Embossed Tape | 500                 |

| Mass (typ.) |        |
|-------------|--------|
| 1 piece     | 3.688g |





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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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## Specifications

| L size  | 12.5±0.3mm              |
|---|-------------------------|
| W size  | 12.5±0.3mm              |
| T size  | 6.8mm                   |
| Size code inch (mm)   | 4949 (125125)           |
| Inductance  | 12µH±20%                |
| Inductance Test Frequency   | 0.1MHz                  |
| Rated current (Isat) (Based<br>on Inductance change)                  | 5000mA                  |
| Rated current (Itemp)<br>(Based on Temperature rise)                  | 4000mA                  |
| Max. of DC resistance   | 0.027Ω                  |
| Operating Temperature<br>Range (Self-temperature<br>rise is included) | -40℃ to 85℃             |
| Class of magnetic shield  | Shielded (Ferrite Core) |
| Brand   | Murata                  |
| Series  | DS126C2                 |

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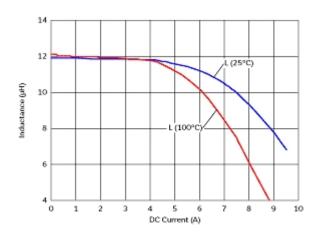
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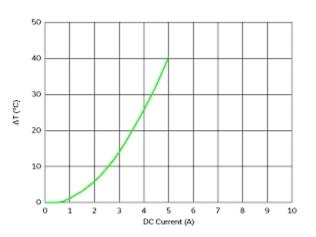
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## Characteristic Data





Impedance - Current Characteristics

### Temperature Increase Characteristic

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