

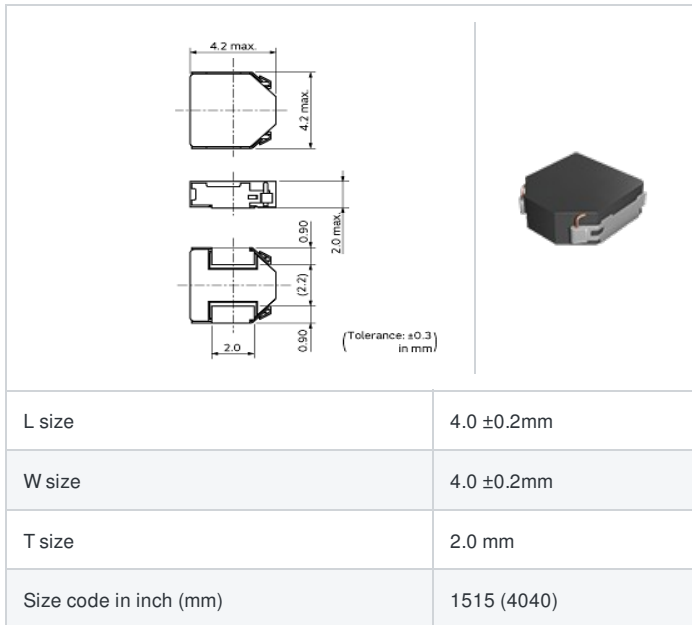
# FDSD0420D-6R8M#

# indicates a package specification code.



< List of part numbers with package codes >  
FDSD0420D-6R8M=P3

## Shape



## Notes

Rated current (Isat) is specified when the decrease of the initial inductance value at 30%. (The ambient reference temperature is 25°C)  
Rated current (Itemp) is specified when temperature of the inductor is raised 40°C by DC current. (The ambient reference temperature is 25°C)

## References

| Packaging code | Specifications         | Minimum quantity |
|----------------|------------------------|------------------|
| =P3            | φ330mm Embossed taping | 2000             |

| Mass (Typ.) |        |
|-------------|--------|
| 1 piece     | 0.164g |

## Specifications

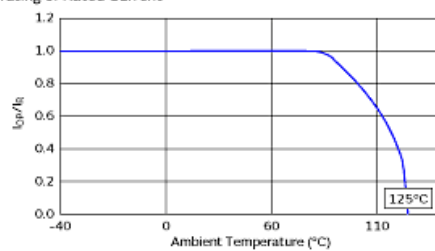
|                                                                 |             |
|-----------------------------------------------------------------|-------------|
| Inductance                                                      | 6.8μH ±20%  |
| Inductance test frequency                                       | 0.1MHz      |
| Rated current (Isat) (Based on Inductance change)               | 2700mA      |
| Rated current (Itemp) (Based on Temperature rise)               | 1900mA      |
| Max. of DC resistance                                           | 0.150Ω      |
| Operating temperature range (Self-temperature rise is included) | -40~125°C   |
| Class of magnetic shield                                        | Metal Alloy |
| Absolute maximum voltage                                        | 30V DC      |
| Series                                                          | FDSD0420_D  |

### 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.

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

Derating of Rated Current



 **Attention**

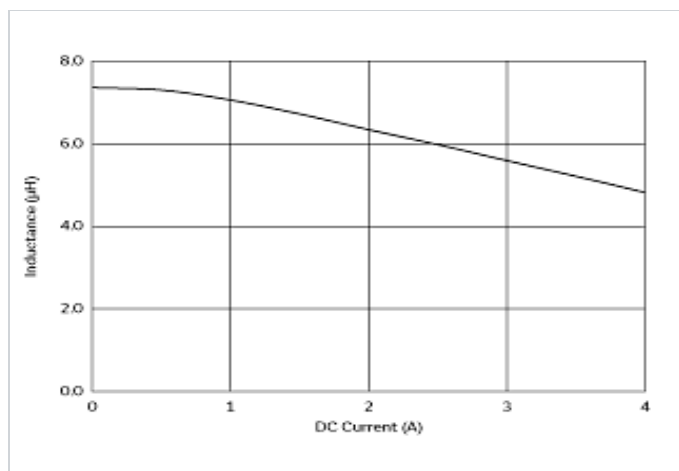
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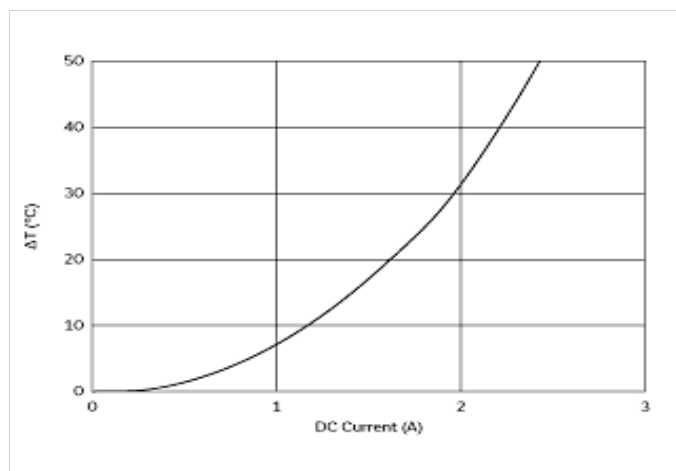
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## Chart of characteristic data (The charts below may show another part number which shares its characteristics.)

■ Inductance-Current characteristics (Typ.)



■ Temperature rise characteristics (Typ.)



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