

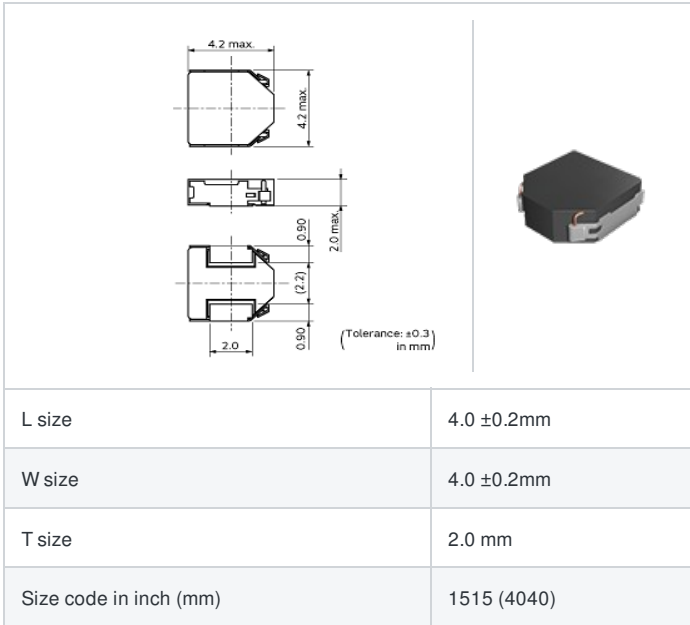
# FDSD0420D-6R8M#

# 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

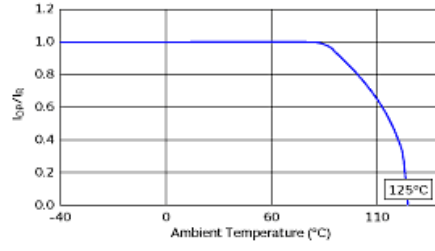
Inductance	6.8μH ±20%
Inductance test frequency	0.1MHz
Rated current (Isat) (Based on Inductance change)	2700mA
Rated current (Itemp) (Based on Temperature rise)	1900mA
Max. of DC resistance	0.150Ω
Operating temperature range (Self-temperature rise is included)	-40~125°C
Class of magnetic shield	Metal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

### Attention

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

Derating of Rated Current

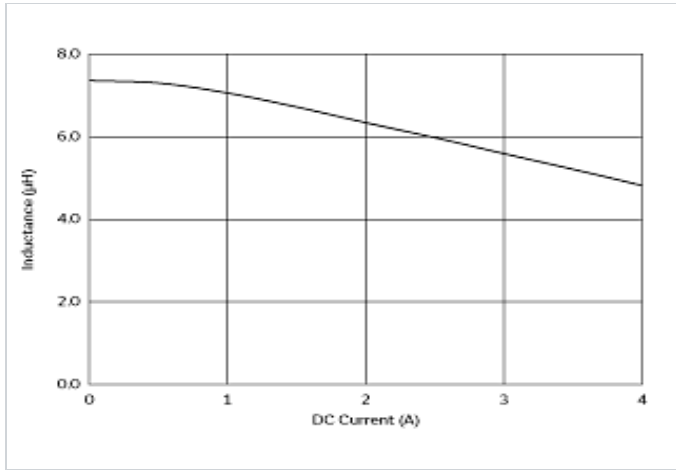


 **Attention**

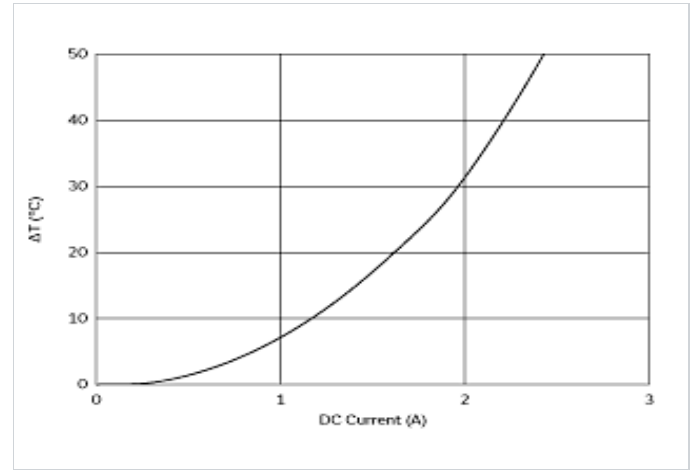
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**Chart of characteristic data (The charts below may show another part number which shares its characteristics.)**

▪ Inductance-Current characteristics (Typ.)



▪ Temperature rise characteristics (Typ.)



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