

Fixed Inductor for Digital Amp. (Class-D)

HER7052C

■ Features

- Small size Inductor For LPF of Digital Amplifier (Class-D)
- Improved the current characteristic by changing the material of core.
- Operating Temperature Range: $-40 \sim +125^{\circ}\text{C}$ (include self-heating)
- **AEC-Q200 compliance**
- RoHS compliance

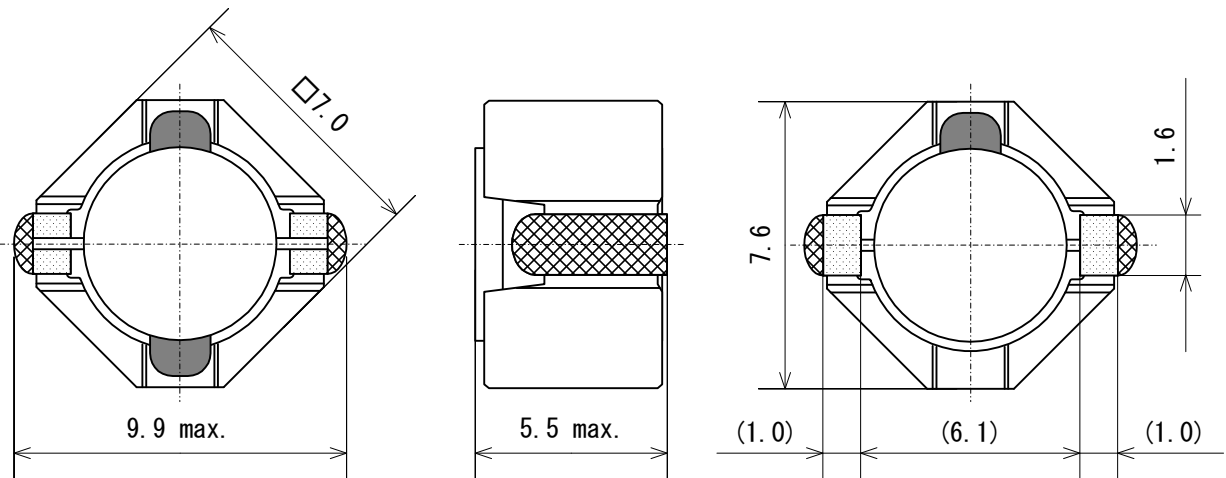


Weight: 0.82g

■ Application

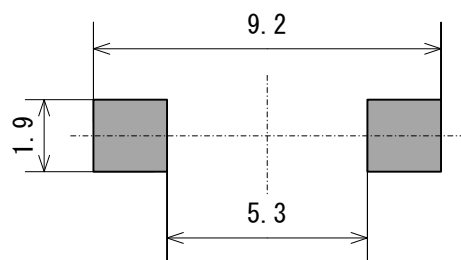
- For LCD TV, desk top audio, car audio, amusement, and so on

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



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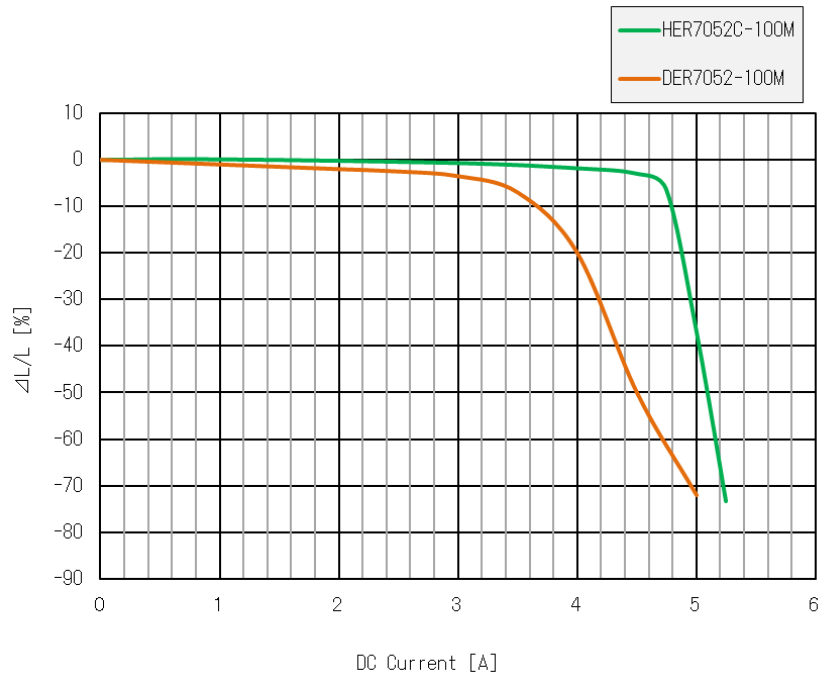
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New Products

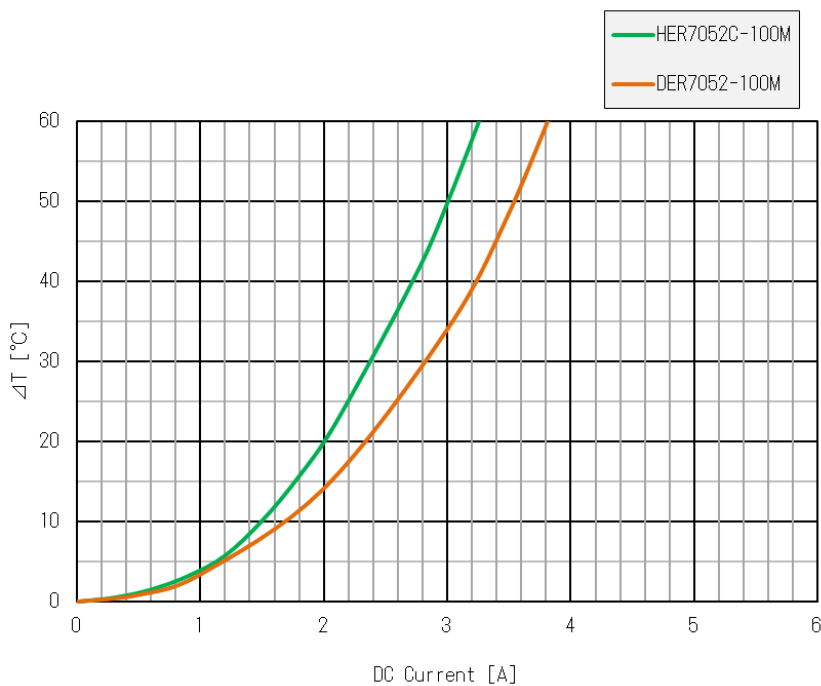
Fixed Inductor for Digital Amp. (Class-D)

HER7052C vs DER7052

■ Characteristics of DC Saturation Current



■ Characteristics of Temperature rise



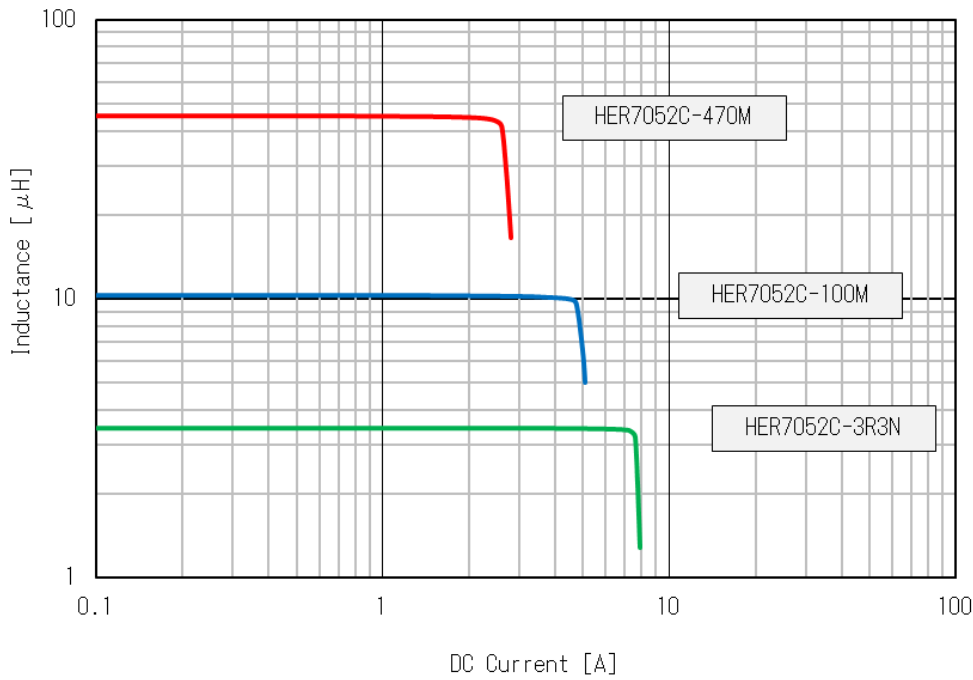
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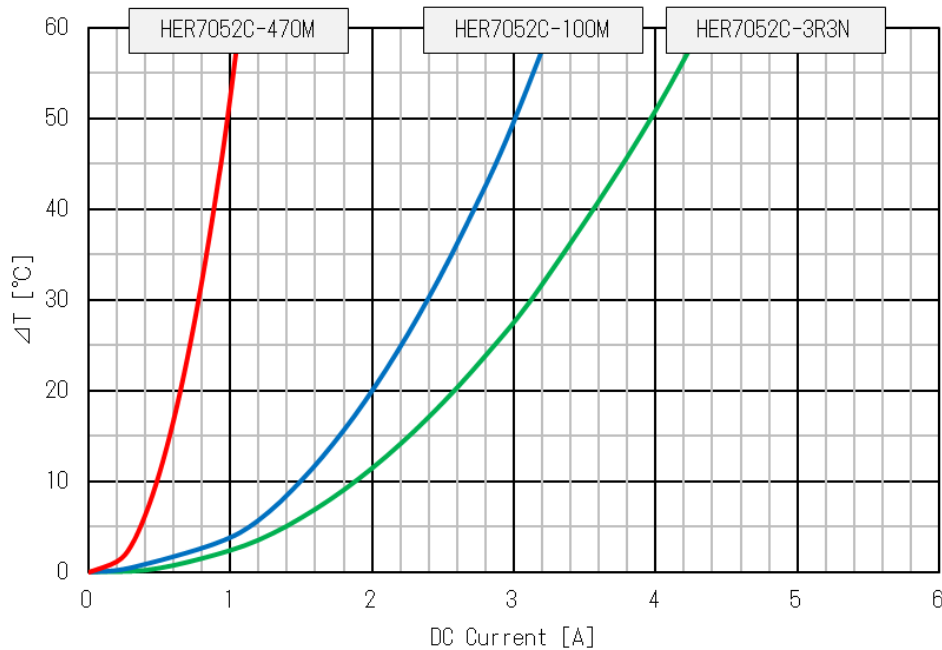
Fixed Inductor for Digital Amp. (Class-D)

HER7052C Current Characteristic

■ Characteristics of DC Saturation Current



■ Characteristics of Temperature rise



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■ Electrical Specification

P/N	Inductance (μ H)	DC Resistance (Ω)	DC Superposition Allowable Current (A)	Temperature Rise Allowable Current (A)
HER7052C-3R3N	3.3 \pm 30%	0.031 \pm 30%	6.7	2.6
HER7052C-4R7N	4.7 \pm 30%	0.037 \pm 30%	6.2	2.4
HER7052C-8R2N	8.2 \pm 30%	0.049 \pm 30%	4.2	2.1
HER7052C-100M	10 \pm 20%	0.056 \pm 30%	3.8	2.0
HER7052C-150M	15 \pm 20%	0.085 \pm 30%	3.3	1.5
HER7052C-220M	22 \pm 20%	0.14 \pm 30%	2.8	1.2
HER7052C-330M	33 \pm 20%	0.26 \pm 30%	2.3	0.84
HER7052C-470M	47 \pm 20%	0.38 \pm 30%	1.9	0.65

* Inductance Measuring Condition : 100kHz, 1V

* Rated current : DC saturation allowable current or Temperature rise allowable current, whichever is smaller.

1. DC Saturation Allowable Current : value of inductance decrease within 30%.
2. Temperature Rise Allowable Current : A rise in temperature of core surface is within 40°C.



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