

DER6042C

New Products

RoHS

AEC-Q200



■ Features

- Best suited as LPF Inductor for Ultra-Small Digital Amplifier(Class-D Amp)
- **High quality sound with shielded structure**
- Extremely high insulation resistance value
- The special terminal structure having excellent shock resistance and vibration resistance
- AEC-Q200 plan to be qualified

■ Magnetic structure



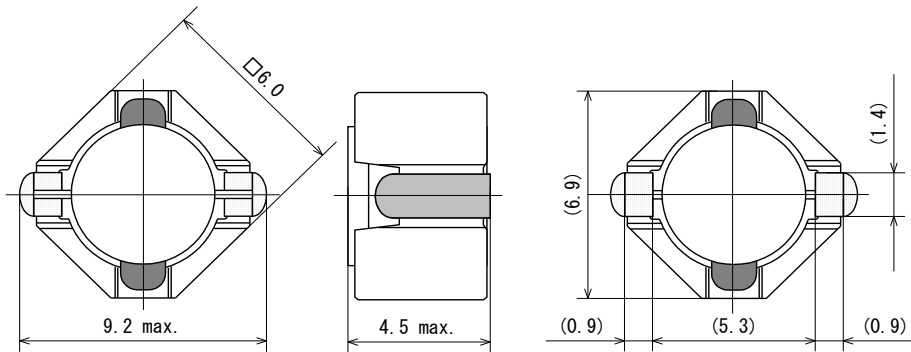
Operating Temperature Range : -40 °C~ +125 °C(include self-heating)

Weight : 0.5 g

■ Application

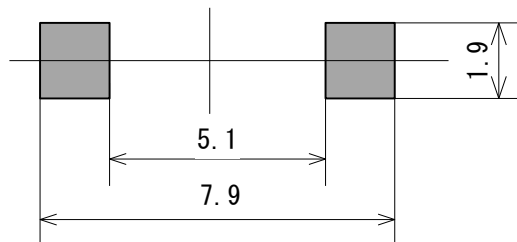
- AudioVisual
- TV and Monitor, Mini component, AV amplifier, Amplifier for profes, Camera, Recorder
- Car Auto
- Car Navigation
- Home Electronics
- Games
- Others
- Power Supply

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



SAGAMI ELEC CO., LTD.
<https://www.sagami-elec.co.jp>

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 Engineering Dept. TEL : +81 45 521 4543

⚠ The contents of this catalogue are subject to change without notice.

■ Specifications

SAGAMI Part No.	Inductance (μH)	DCR Resistance ($\text{m}\Omega$) $\pm 30\%$	Rated current			
			DC saturation allowable current (A)		Temperature rise allowable current (A)	
			Spec.	Typical	Spec.	Typical
DER6042C-3R3N	3.3 $\pm 30\%$	19.0	5.20	7.00	3.50	4.80
DER6042C-100M	10 $\pm 20\%$	66.0	3.10	3.90	1.90	2.60
DER6042C-220M	22 $\pm 20\%$	180	2.00	2.80	1.00	1.30

- Inductance Measuring Condition : 100kHz, 1V
- Rated current : DC saturation allowable current or Temperature rise allowable current, whichever is smaller.
 1. DC saturation allowable current (Spec.) : value of inductance decrease within 30%.
DC saturation allowable current (Typical) : value of inductance decrease 30%.
 2. Temperature rise allowable current (Spec.) : A rise in temperature of core surface is within 40°C.
Temperature rise allowable current (Typical) : A rise in temperature of core surface is 40°C.



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DC bias characteristics vs Temperature Rise Graph

■ L(25°C) ■ ΔT

