

DER6042C

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 compliant
- Operating temperature : -40°C~+125°C(The self-heating is included)

Magnetic structure :

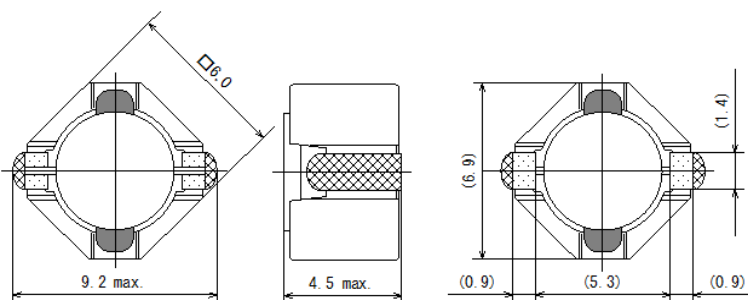


Weight : 0.57 g

■ Applications

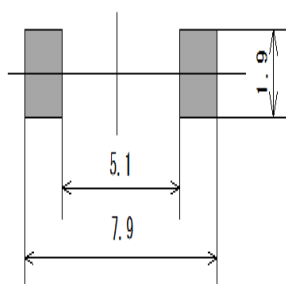
- Audio Visual/Mini System, AV Amplifier, for Professionals,TV and Monitor
- Automotive/Car Audio,Car Navigation
- Home Electronics/Games
- Others/Power Supply

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



(Unit : mm)



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

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

■ Specifications

SAGAMI Part No.	Inductance (μ H)	DCR (Ω) $\pm 30\%$	DC Saturation Allowable Current (A)		Temperature Rise Allowable Current (A)	
			Typical	Spec	Typical	Spec
DER6042C-3R3N	3.3 $\pm 30\%$	0.0190	7.00	5.20	4.80	3.50
DER6042C-4R7N	4.7 $\pm 30\%$	0.0230	5.60	4.20	4.00	2.90
DER6042C-100M	10 $\pm 20\%$	0.0570	3.90	3.10	2.60	1.90
DER6042C-220M	22 $\pm 20\%$	0.180	2.80	2.00	1.30	1.00

Inductance Measuring Condition:100kHz,1V

DC saturation allowable current:The current value which inductance decrease within 30% from the initial value

Temperature rise allowable current:The rise in temperature of core surface is within 40°C



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DC bias characteristics vs Temperature Rise Graph



L(25°C)



ΔT

