

CER6027V

New Products

RoHS

AEC-Q200



■ Features

- SMD magnetic shielded type of power inductor.
- 400V High withstand voltage product
- Suitable for DC-DC converter with high voltage input

■ Magnetic structure



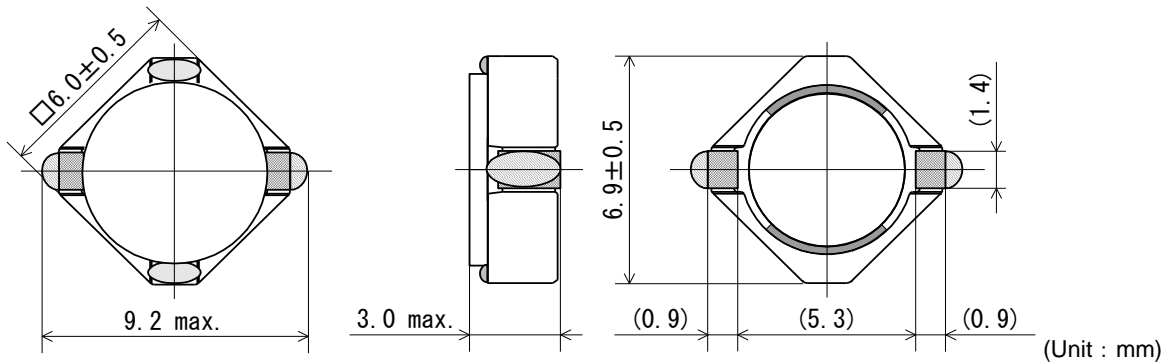
Operating Temperature Range : -40 °C~ +150 °C(include self-heating)

Weight : 0.4 g

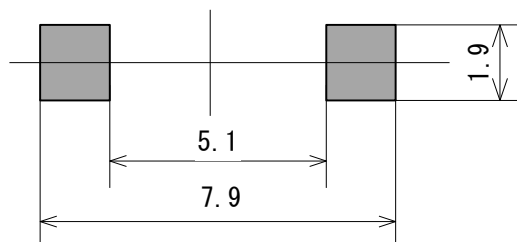
■ Application

- Power supply for microcomputers in home appliances
- Intelligent House(IoT,Bluetooth)
- Power supply circuit for HEV / EV

■ Dimensions



■ Recommended Land Pattern



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 Resistance (m Ω) $\pm 30\%$	Rated current			
			DC saturation allowable current (A)		Temperature rise allowable current (A)	
			Spec.	Typical	Spec.	Typical
CER6027V-101M	100 $\pm 20\%$	0.460	0.400	0.570	0.700	0.880
CER6027V-151M	150 $\pm 20\%$	0.650	0.330	0.470	0.570	0.710
CER6027V-221M	220 $\pm 20\%$	1.05	0.260	0.370	0.440	0.550
CER6027V-331M	330 $\pm 20\%$	1.73	0.220	0.310	0.350	0.440
CER6027V-471M	470 $\pm 20\%$	2.23	0.170	0.240	0.310	0.390
CER6027V-681M	680 $\pm 20\%$	3.29	0.150	0.210	0.260	0.320
CER6027V-102M	1000 $\pm 20\%$	3.99	0.140	0.200	0.220	0.270
-	-	-	-	-	-	-
-	-	-	-	-	-	-
-	-	-	-	-	-	-

- 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 35%.
DC saturation allowable current (Typical) : value of inductance decrease 35%.
 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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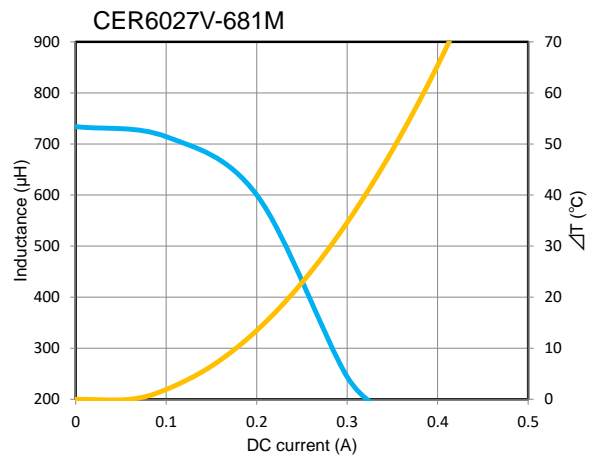
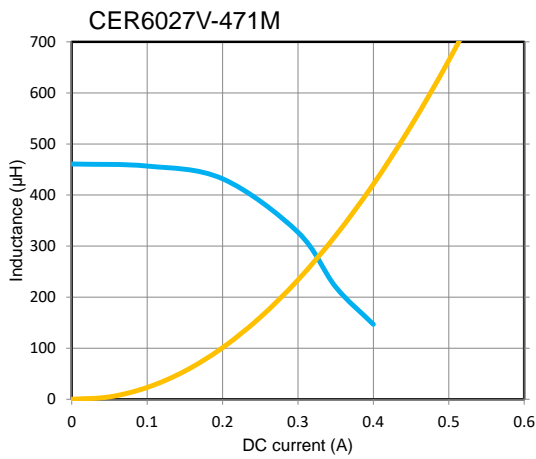
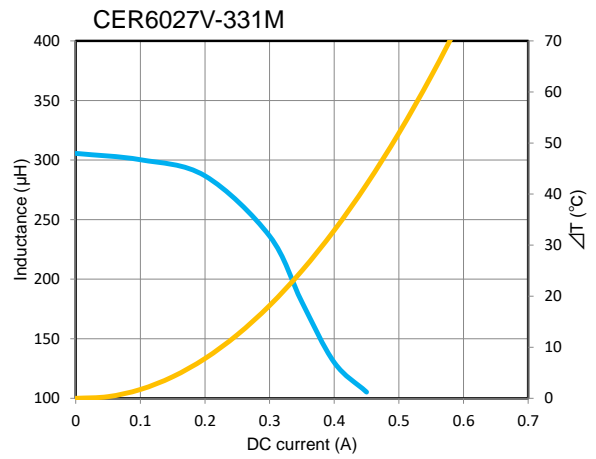
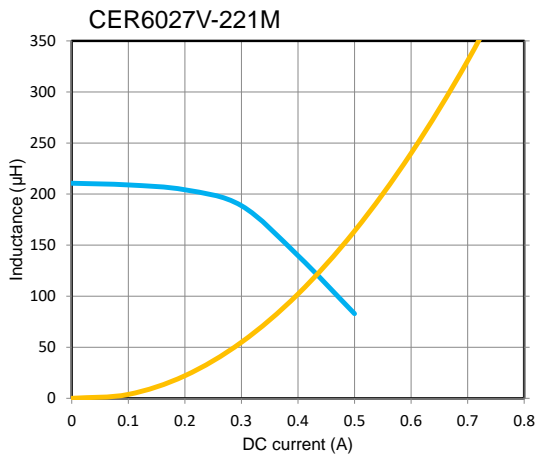
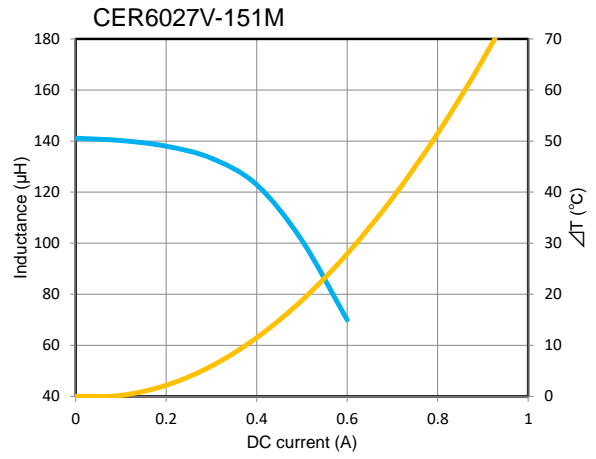
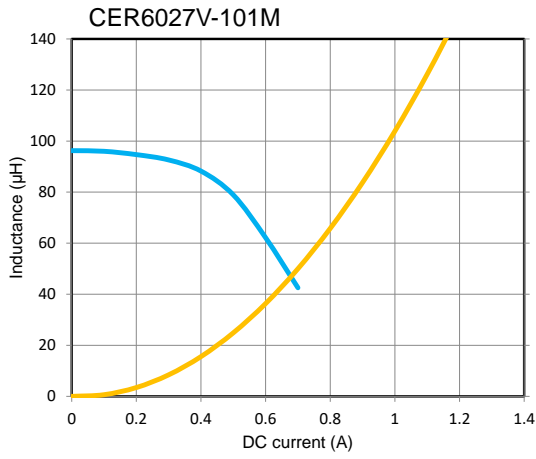
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DC bias characteristics vs Temperature Rise Graph

 L(25°C)

 ΔT



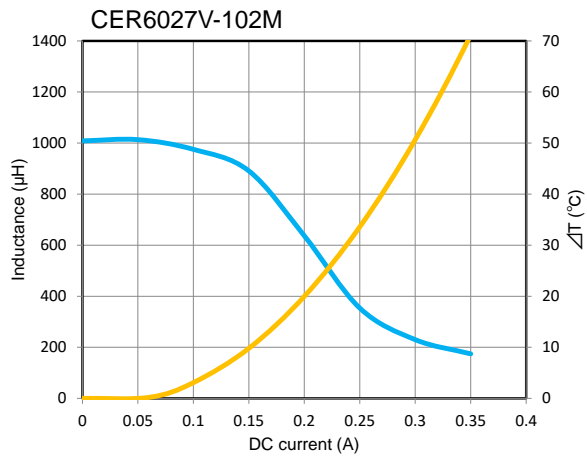
DC bias characteristics vs Temperature Rise Graph



L(25°C)



ΔT



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