

# CER1065V

New Products

RoHS



■ Features

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

■ Magnetic structure



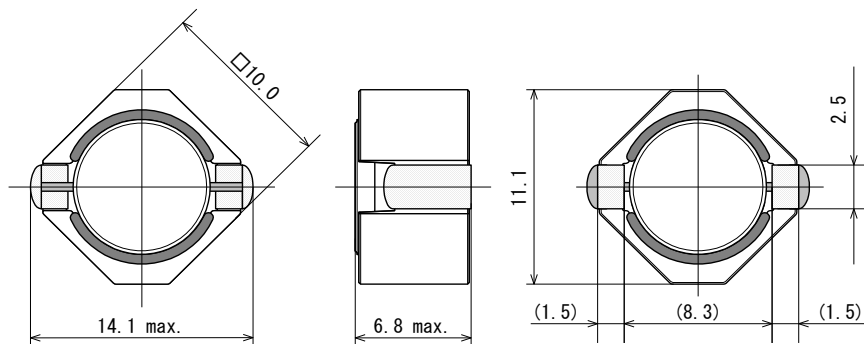
Operating Temperature Range : -40 °C~ +125 °C(include self-heating)

Weight : 2.4 g

■ Application

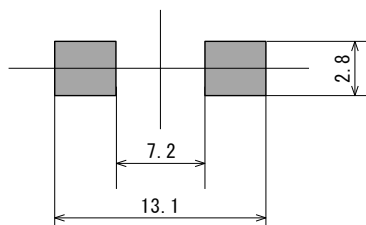
- Power supply for microcomputers in home appliances
- Power supply circuit for HEV / EV

■ Dimensions



(Unit : mm)

■ Recommended Land Pattern



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

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## ■ Specifications

SAGAMI Part No.	Inductance ( $\mu$ H)	DCR Resistance ( $\Omega$ ) $\pm 30\%$	Rated current			
			DC saturation allowable current (A)		Temperature rise allowable current (A)	
			Spec.	Typical	Spec.	Typical
CER1065V-101M	100 $\pm 20\%$	0.190	1.50	2.15	1.10	1.56
CER1065V-151M	150 $\pm 20\%$	0.260	1.25	1.80	0.950	1.34
CER1065V-221M	220 $\pm 20\%$	0.430	1.00	1.43	0.740	1.04
CER1065V-331M	330 $\pm 20\%$	0.640	0.830	1.18	0.600	0.850
CER1065V-471M	470 $\pm 20\%$	0.850	0.700	0.970	0.490	0.730
CER1065V-681M	680 $\pm 20\%$	1.25	0.610	0.830	0.430	0.600
CER1065V-102M	1000 $\pm 20\%$	1.90	0.500	0.700	0.340	0.490

- 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.



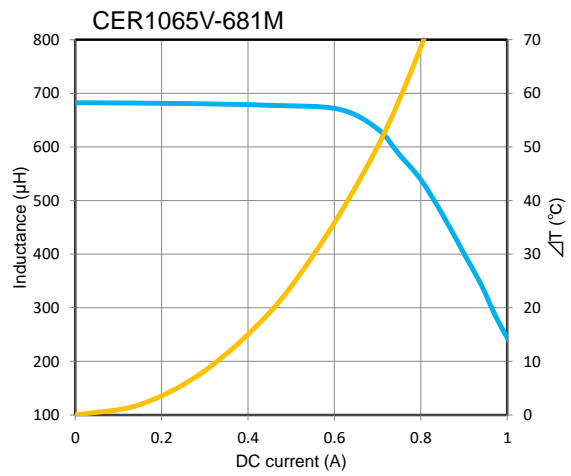
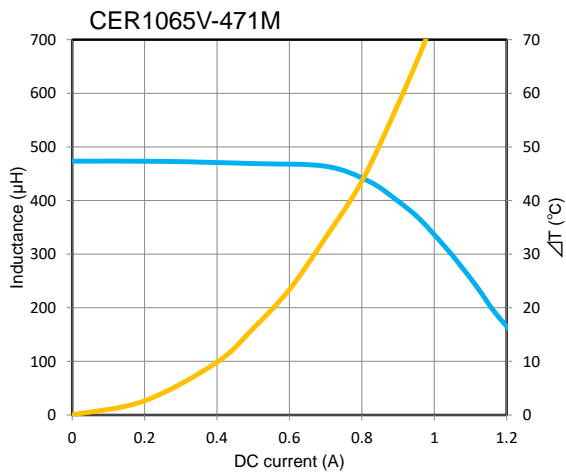
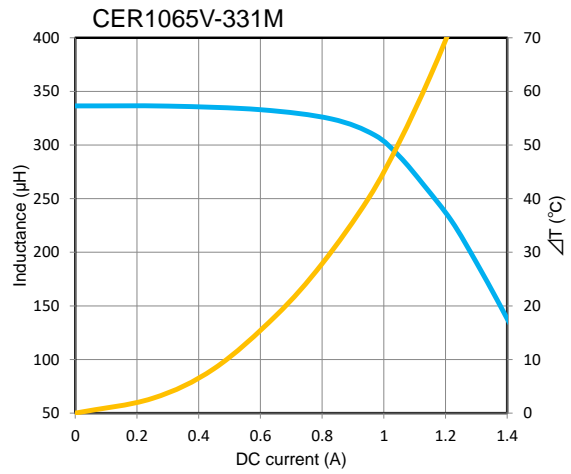
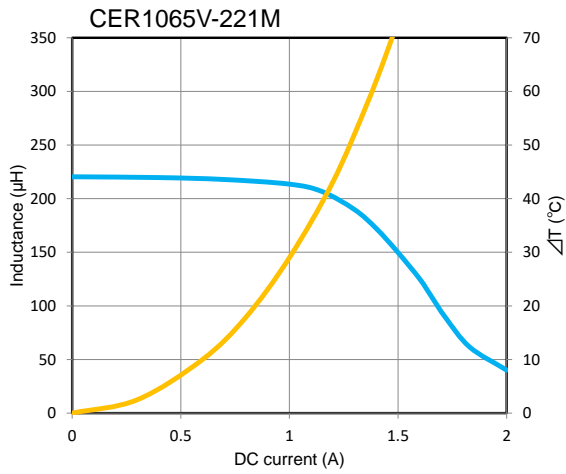
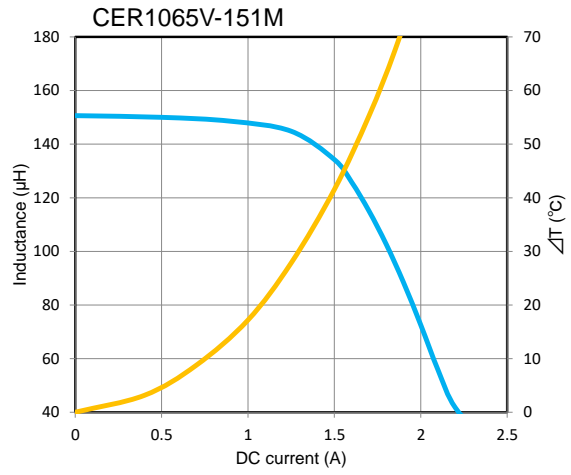
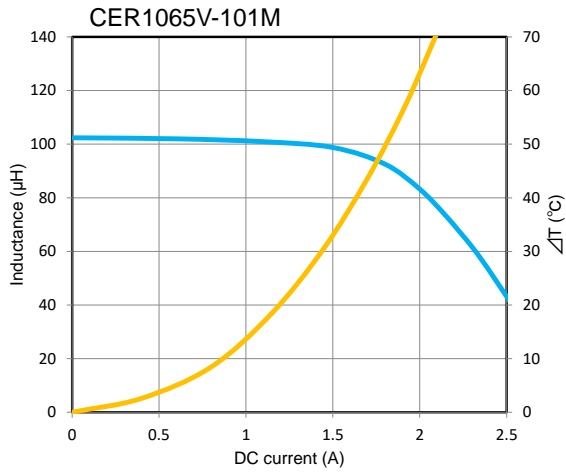
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# DC bias characteristics vs Temperature Rise Graph

■ L(25°C)      ■  $\Delta T$



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■ L(25°C)      ■  $\Delta T$

