

# CER7052V

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



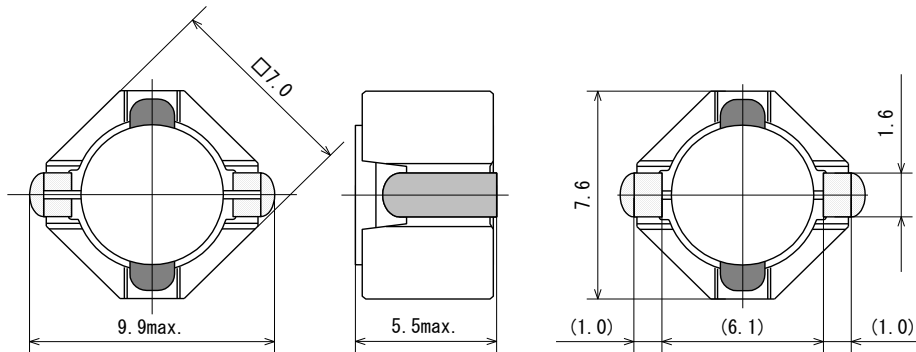
Operating Temperature Range : -40 °C~ +150 °C(include self-heating)

Weight : 0.9 g

## ■ Application

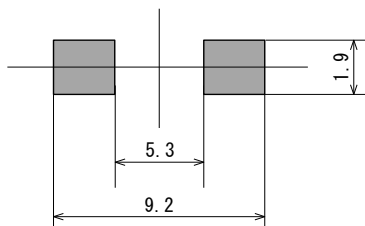
- Power supply for microcomputers in home appliances
- Intelligent House(IoT,Bluetooth)
- Power supply circuit for HEV / EV

## ■ 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
CER7052V-101M	100 $\pm 20\%$	0.340	0.730	1.00	0.690	0.940
CER7052V-151M	150 $\pm 20\%$	0.550	0.600	0.860	0.530	0.730
CER7052V-221M	220 $\pm 20\%$	0.850	0.500	0.720	0.430	0.590
CER7052V-331M	330 $\pm 20\%$	1.19	0.400	0.570	0.360	0.490
CER7052V-471M	470 $\pm 20\%$	1.89	0.330	0.470	0.280	0.380
CER7052V-681M	680 $\pm 20\%$	2.71	0.280	0.400	0.230	0.320
CER7052V-102M	1000 $\pm 20\%$	3.99	0.230	0.330	0.190	0.260

- 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.



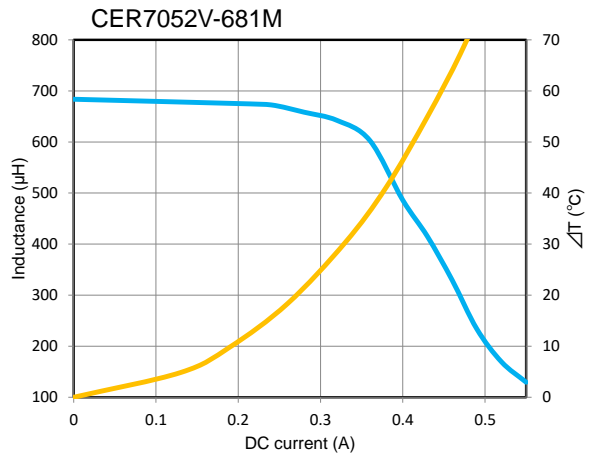
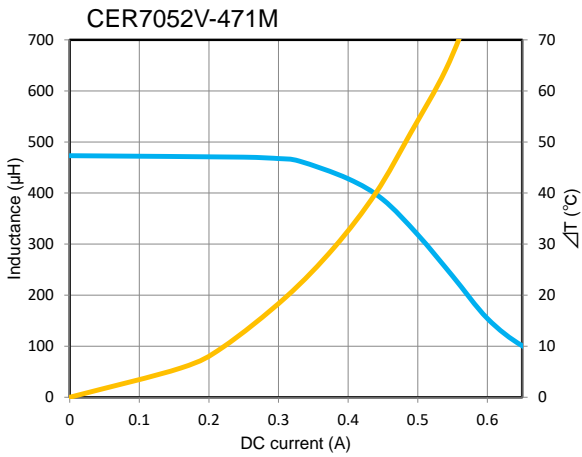
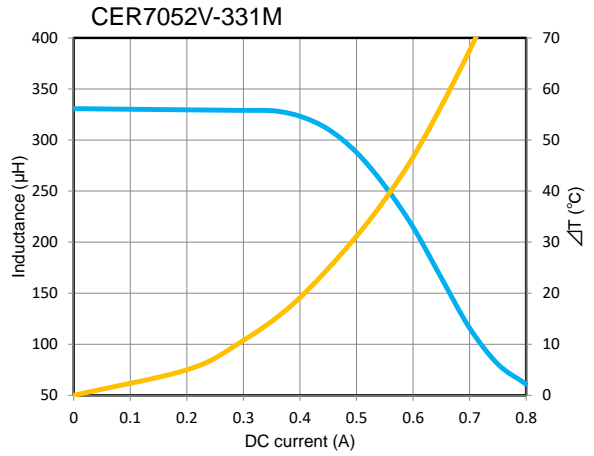
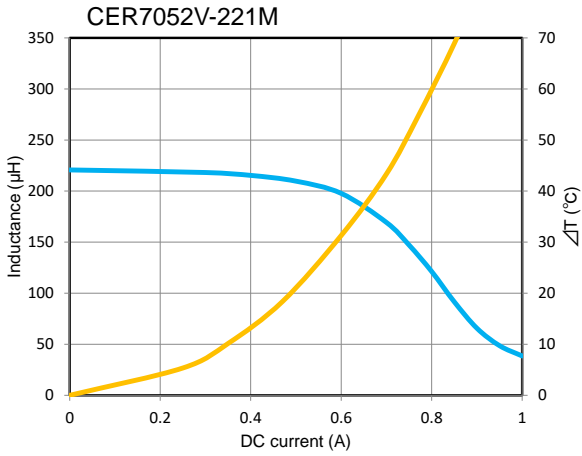
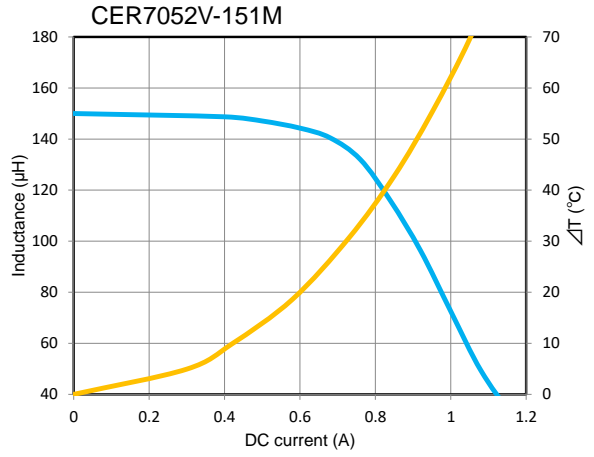
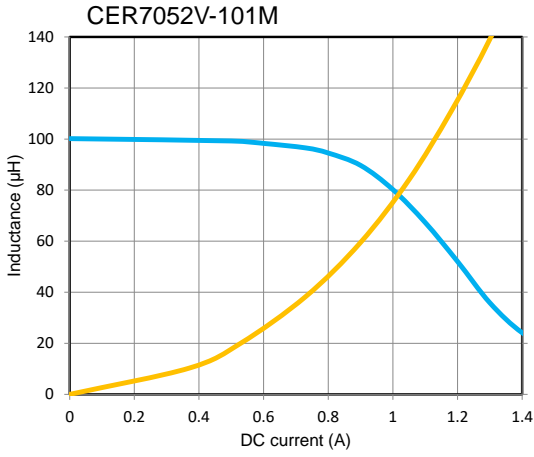
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# DC bias characteristics vs Temperature Rise Graph

■ L(25°C)      ■  $\Delta T$



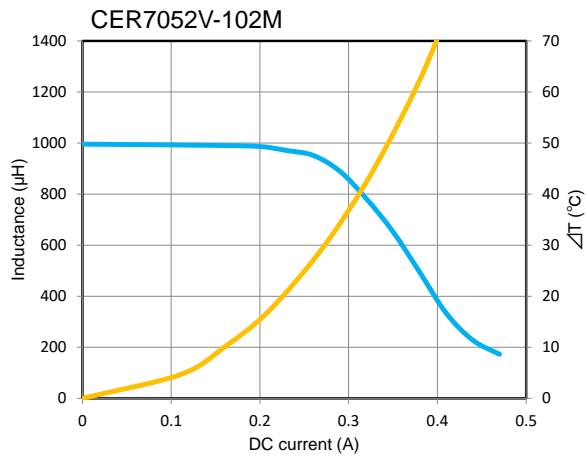
# DC bias characteristics vs Temperature Rise Graph



L(25°C)



ΔT



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