

# CBE2618H

New Products

RoHS

AEC-Q200



## ■ Features

- Power inductor with greatly improved current characteristics
- Closed magnetic circuit structure with low leakage flux
- Uses flat wire, low resistance and high current specifications
- Construction for high current

## ■ Magnetic structure



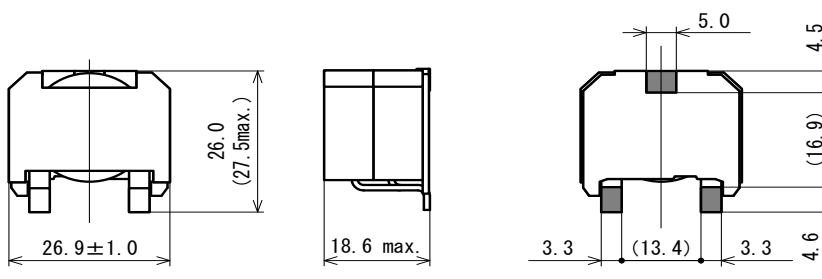
Operating Temperature Range : -40 °C ~ +150 °C(include self-heating)

Weight : 37 g

## ■ Application

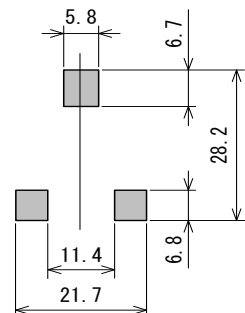
- General-purpose / car DC / DC power supply
- DC line Low pass filter
- European Standard LV148 (dual battery system)
- Power supply for digital amplifier

## ■ Dimensions



(Unit : mm)

## ■ Recommended Land Pattern



(Unit : mm)



SAGAMI ELEC CO., LTD.  
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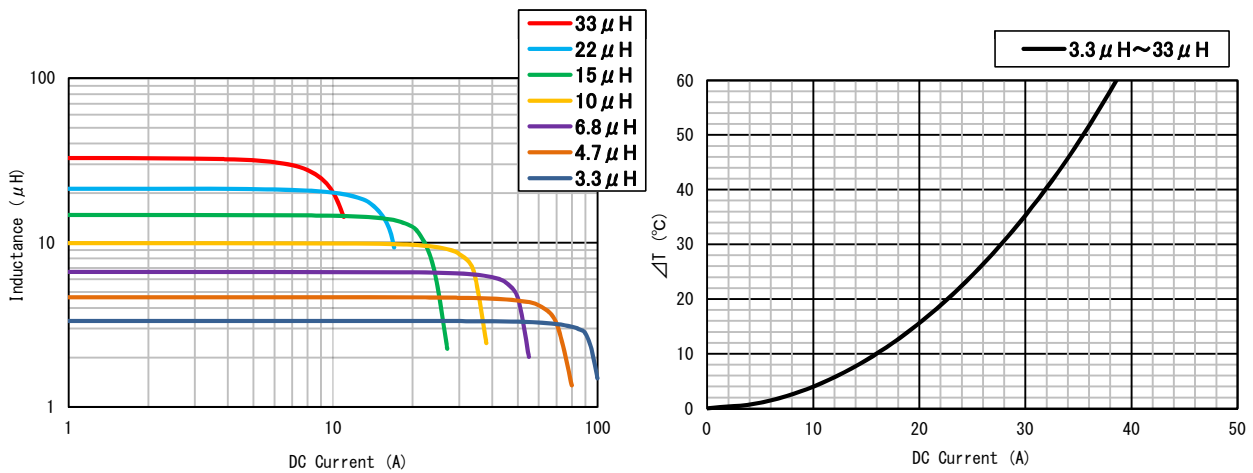
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## ■ Specifications

SAGAMI Part No.	Inductance ( $\mu\text{H}$ )	DCR Resistance ( $\text{m}\Omega$ )	Rated current	
			DC saturation allowable current (A)	Temperature rise allowable current (A)
CBE2618H-3R3M	3.3 $\pm$ 20%	2.20	85.0	32.0
CBE2618H-4R7M	4.7 $\pm$ 20%	2.20	59.0	32.0
CBE2618H-6R8M	6.8 $\pm$ 20%	2.20	41.0	32.0
CBE2618H-100M	10 $\pm$ 20%	2.20	28.0	32.0
CBE2618H-150M	15 $\pm$ 20%	2.20	18.0	32.0
CBE2618H-220M	22 $\pm$ 20%	2.20	11.0	32.0
CBE2618H-330M	33 $\pm$ 20%	2.20	7.00	32.0
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

- Inductance Measuring Condition : 100kHz,1V
- Rated current : DC saturation allowable current or Temperature rise allowable current, whichever is smaller.
  - 1.DC saturation allowable current : value of inductance decrease 10%.
  - 2.Temperature rise allowable current : A rise in temperature of core surface is 40°C.

## ■ Characteristics of DC Saturation Current



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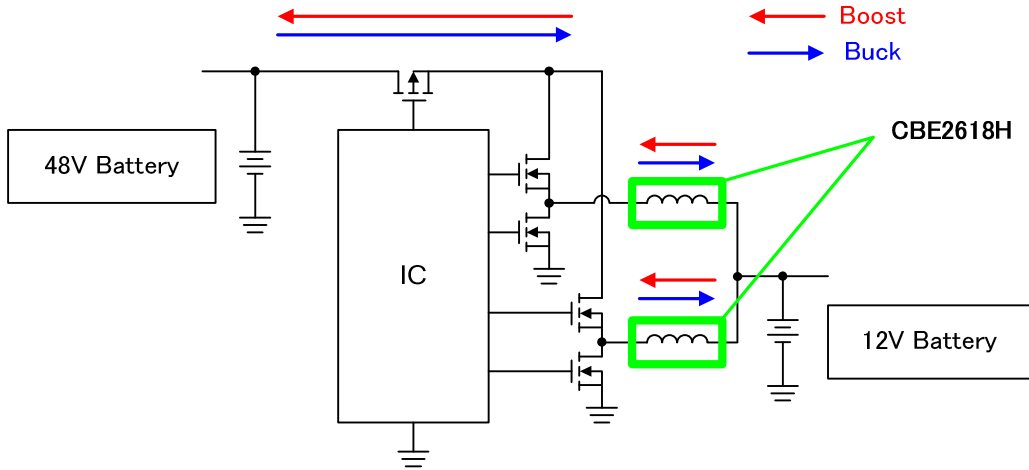
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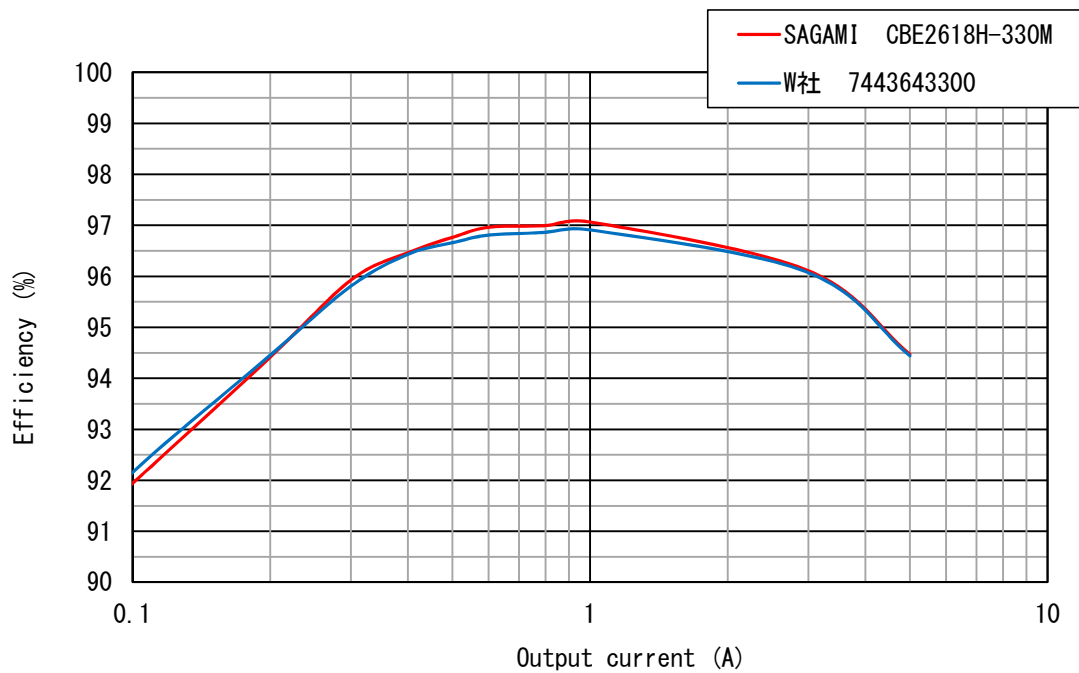
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■ Example of circuit used

48V / 12V dual battery system (bidirectional buck-boost DC / DC converter)



■ Efficiency (our evaluation data)



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