

# Low-Profile High Current Power Inductor

## CDMC60D28/T150



Provisional



### Description

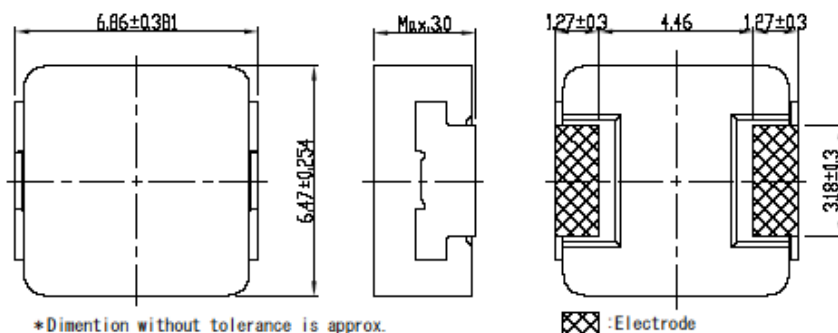
- Inductor for large current demand
- Absolute maximum voltage (across inductor): 100V
- Metal compound molding type
- Magnetically shielded
- Targeting Qualified AEC-Q200
- Operating temperature range: -55°C~ +150°C  
(including coil's self- temperature rise)



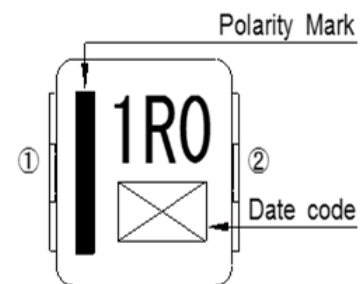
### Applications

- LED head light for automobile.
- ECU
- Automotive and other high temperature, high reliability applications

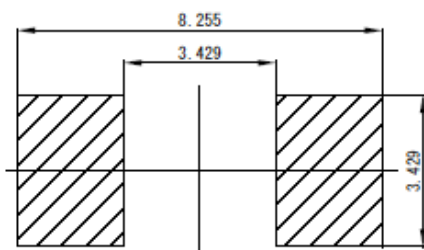
### Dimension - [mm]



### Stamp Example

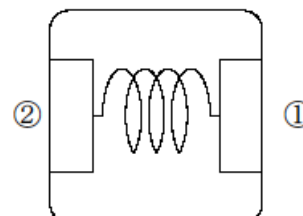


### Reference Land pattern – [mm]



The area for mounting coil shall be resisted on PCB.

### Connection (bottom view)



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### Electrical Characteristics

Part No.	Inductance ( $\mu$ H) ( $\pm 20\%$ ) ※1	D.C.R. (m $\Omega$ ) ( $\pm 10\%$ )	Saturation Current (A) at 20°C ※2	Temperature Rise Current (A) ※3
CDMC60D28T150NP-R10MC	0.10 $\pm 20\%$	1.70	80.0	26.0
CDMC60D28T150NP-R15MC	0.15 $\pm 20\%$	2.20	73.0	21.3
CDMC60D28T150NP-R22MC	0.22 $\pm 20\%$	2.80	57.0	19.0
CDMC60D28T150NP-R33MC	0.33 $\pm 20\%$	3.60	43.5	16.6
CDMC60D28T150NP-R47MC	0.47 $\pm 20\%$	4.40	36.5	15.1
CDMC60D28T150NP-R68MC	0.68 $\pm 20\%$	6.30	30.5	12.9
CDMC60D28T150NP-R82MC	0.82 $\pm 20\%$	7.20	28.0	11.5
CDMC60D28T150NP-1R0MC	1.0 $\pm 20\%$	9.00	24.0	10.6
CDMC60D28T150NP-1R5MC	1.5 $\pm 20\%$	16.3	23.0	7.6
CDMC60D28T150NP-2R2MC	2.2 $\pm 20\%$	24.9	19.0	6.2
CDMC60D28T150NP-3R3MC	3.3 $\pm 20\%$	33.1	16.6	5.4
CDMC60D28T150NP-4R7MC	4.7 $\pm 20\%$	45.9	11.1	4.4
CDMC60D28T150NP-6R8MC	6.8 $\pm 20\%$	73.4	9.3	3.5
CDMC60D28T150NP-8R2MC	8.2 $\pm 20\%$	86.9	9.8	3.3
CDMC60D28T150NP-100MC	10.0 $\pm 20\%$	102.3	9.3	3.0

※1 Measuring frequency at 100kHz, 0.1V

※2 Saturation current: This indicates the actual value of D.C. current when the inductance becomes 20% lower than its initial value.

※3 Temperature rise current: The actual value of D.C. current when the temperature of coil becomes  $\Delta T=40^\circ\text{C}$ . ( $T_a=20^\circ\text{C}$ )

Note: Please note that when using the product while applying current with audio-frequency (AF) signals may result in audible noises due to magnetostriction. Also, in order to avoid an audible noise problem, operating with non-AF signals would be recommended. The noise amplifies depending on the coil mount area on the PCB.

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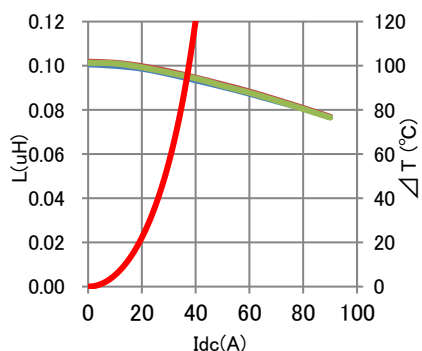
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Saturation Current & Temperature Rise Graph

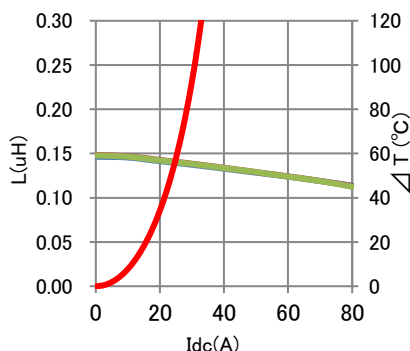
— L (20°C & 150°C)

—  $\Delta T$

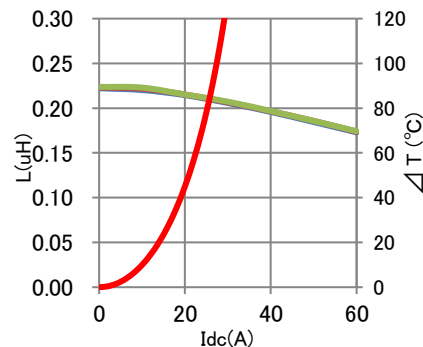
CDMC60D28T150NP-R10MC



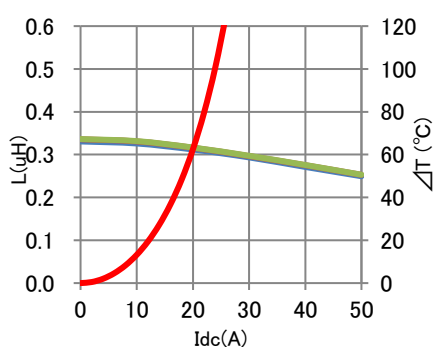
CDMC60D28T150NP-R15MC



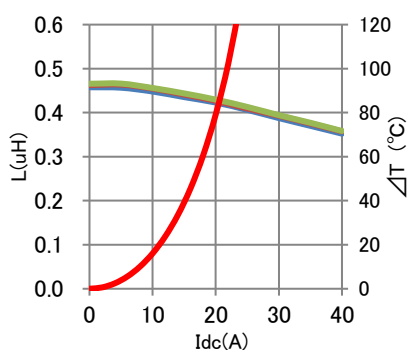
CDMC60D28T150NP-R22MC



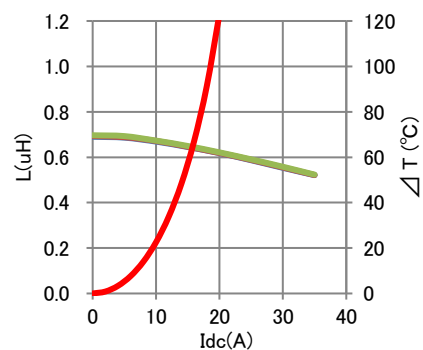
CDMC60D28T150NP-R33MC



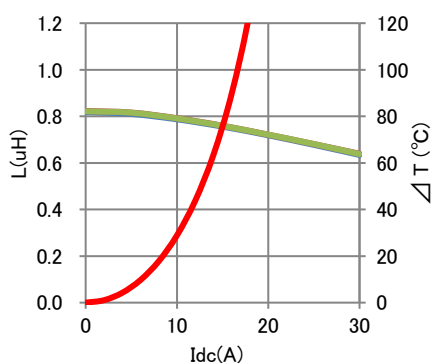
CDMC60D28T150NP-R47MC



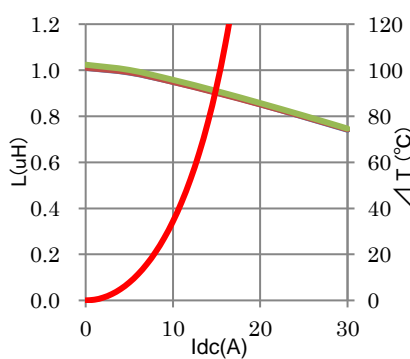
CDMC60D28T150NP-R68MC



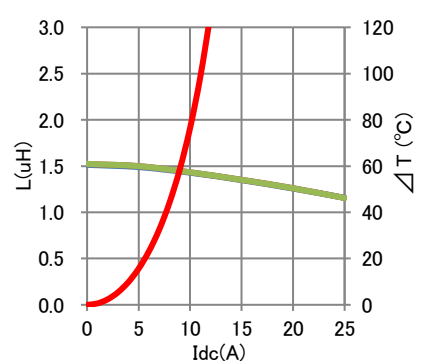
CDMC60D28T150NP-R82MC



CDMC60D28T150NP-1R0MC



CDMC60D28T150NP-1R5MC



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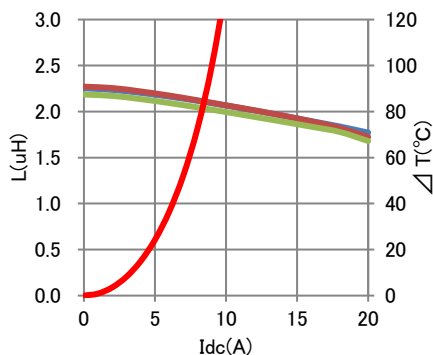
## CDMC60D28/T150



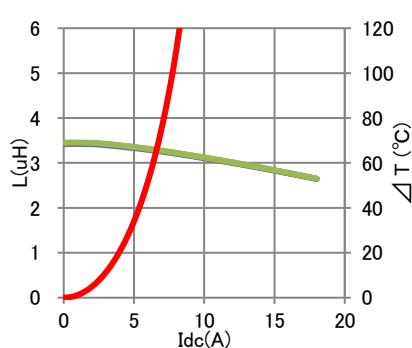
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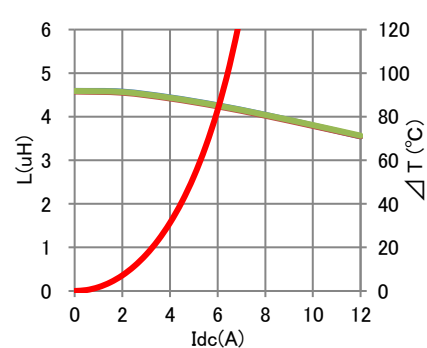
CDMC60D28T150NP-2R2MC



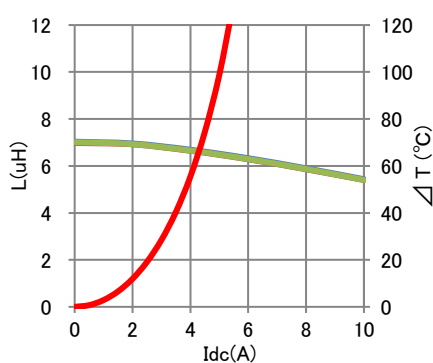
CDMC60D28BT150NP-3R3MC



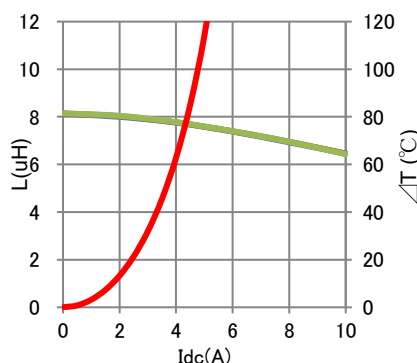
CDMC60D28T150NP-4R7MC



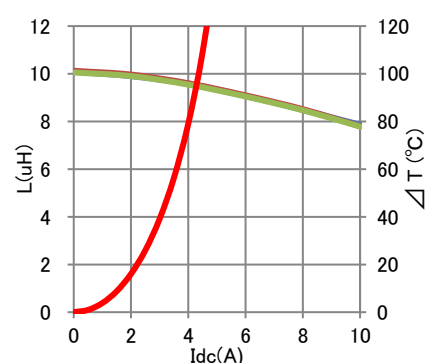
CDMC60D28T150NP-6R8MC



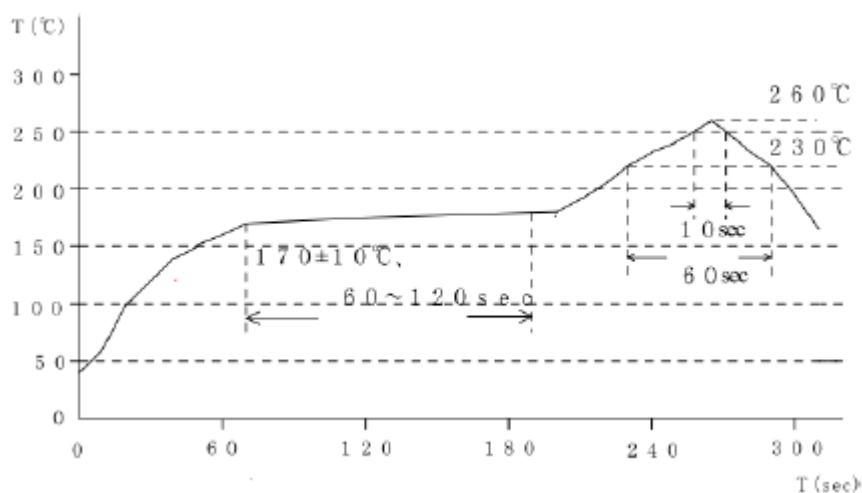
CDMC60D28T150NP-8R2MC



CDMC60D28T150NP-100MC



### Solder Reflow Condition



For sales office information, please [click here](#) to visit our website.

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