

# SMD Power Inductor

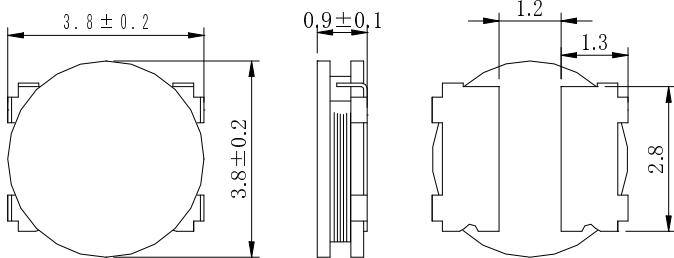
## CDH38D09



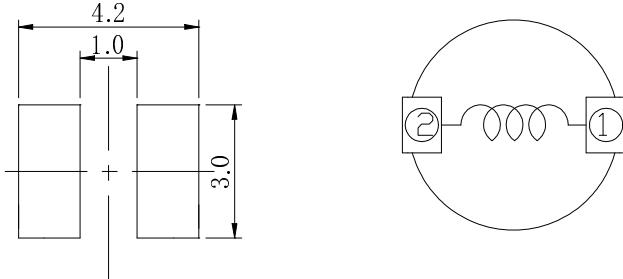
**Halogen Free**



### Dimension - [mm]



### Land pattern and Schematics - [mm]



### Electrical Characteristics

Part Name	Stamp	Inductance ( $\mu$ H) [within ] $\pm 20\%$	D.C.R.( $\Omega$ ) Max. (Typ.) (at 20°C)	Saturation Current (A) $\pm 20\%$		Temperature Rise Current (A) $\pm 20\%$
				at 20°C	at 105°C	
CDH38D09NP-1R2MC	1R2	1.2 $\pm 20\%$	0.14(0.11)	1.90	1.60	1.35
CDH38D09NP-1R5MC	1R5	1.5 $\pm 20\%$	0.16(0.13)	1.70	1.40	1.25
CDH38D09NP-2R2MC	2R2	2.2 $\pm 20\%$	0.19(0.15)	1.50	1.25	1.15
CDH38D09NP-2R7MC	2R7	2.7 $\pm 20\%$	0.21(0.17)	1.35	1.15	1.10
CDH38D09NP-3R3MC	3R3	3.3 $\pm 20\%$	0.24(0.19)	1.25	1.00	1.00
CDH38D09NP-4R7MC	4R7	4.7 $\pm 20\%$	0.30(0.24)	1.10	0.85	0.95
CDH38D09NP-6R8MC	6R8	6.8 $\pm 20\%$	0.39(0.31)	0.90	0.72	0.85
CDH38D09NP-8R2MC	8R2	8.2 $\pm 20\%$	0.50(0.40)	0.80	0.65	0.75
CDH38D09NP-100MC	100	10.0 $\pm 20\%$	0.58(0.47)	0.7	0.60	0.70
CDH38D09NP-150MC	150	15.0 $\pm 20\%$	0.87(0.69)	0.60	0.50	0.55
CDH38D09NP-220MC	220	22.0 $\pm 20\%$	1.14(0.91)	0.50	0.40	0.45

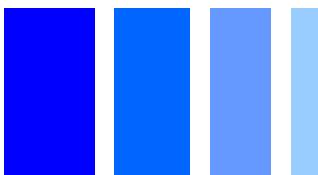
※1. Inductance measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 65% of its nominal value.

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

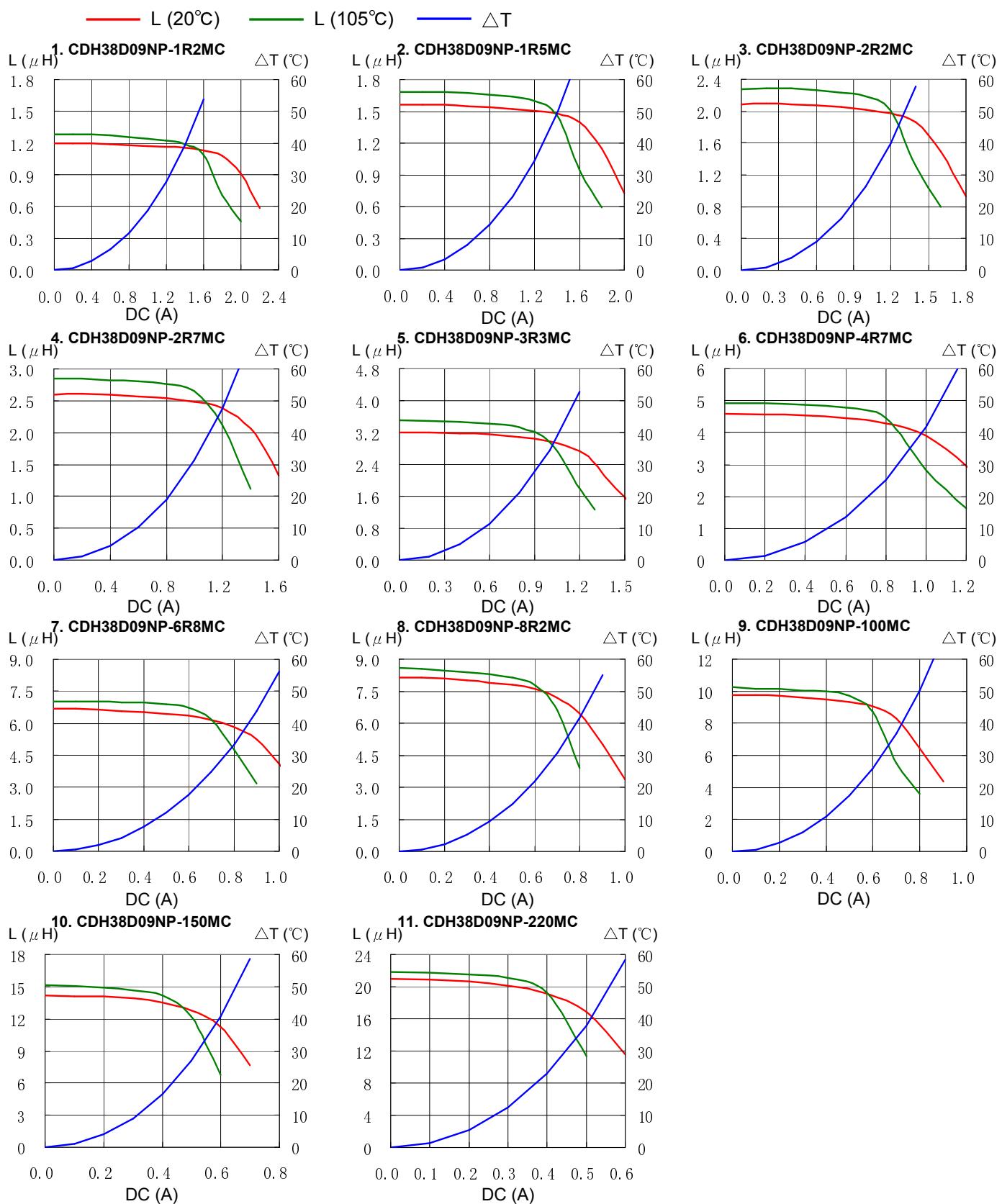
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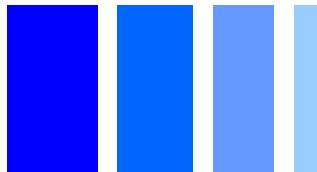
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### Saturation Current & Temperature Rise Graph



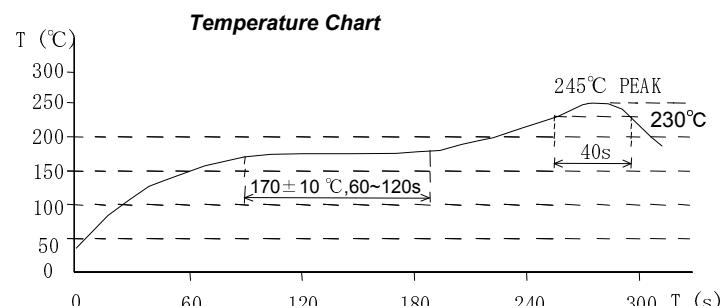
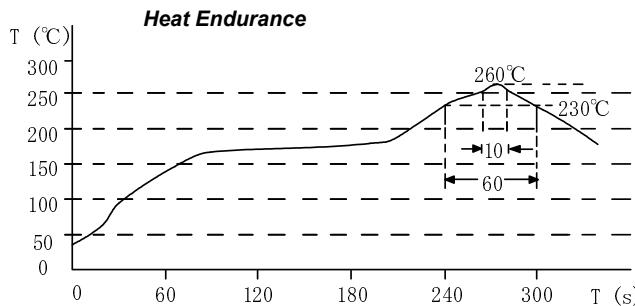
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### Solder Reflow Condition



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