

SMD Power Inductor CDRH125



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 12.3 × 12.3 × 6.0 mm Max.
- Product weight: 2.9g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

- Operating temperature range: -40°C ~ +100°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +100°C
- Solder reflow temperature: 260 °C peak.

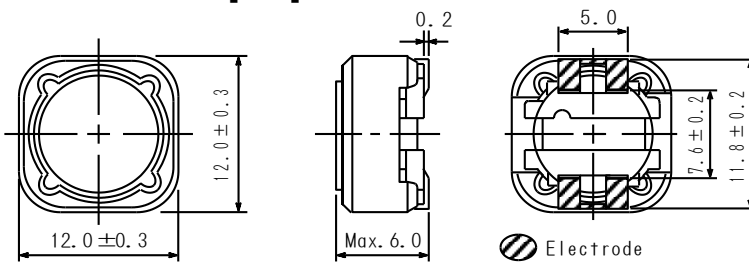
Packaging

- Carrier tape and reel packaging
- 13" diameter reel
- 500pcs per reel

Applications

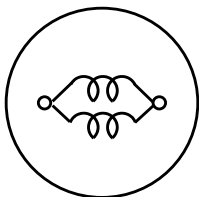
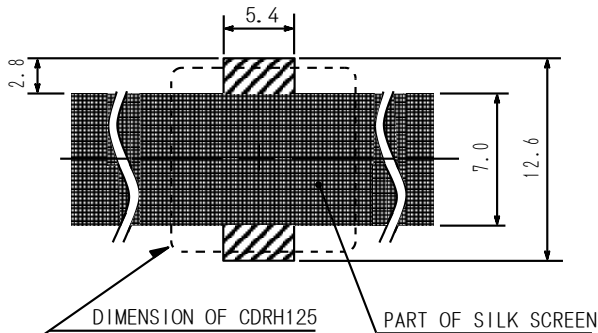
- Ideally used in Notebook PC, LCD TV, DVD, Game machine, STB, Projector etc. as DC-DC converter inductors.

Dimension - [mm]

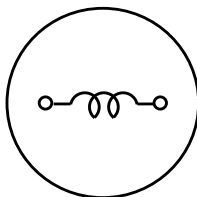


Electrode

Land pattern and Schematics - [mm]



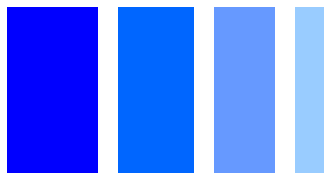
1.3µH ~ 47µH



56µH ~ 1mH

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Electrical Characteristics

| Part Name | Stamp | Inductance (μH) [within] ※1 | D.C.R.(Ω) Max. (Typ.) (at 20°C) | Rated Current (A) ※2 |
|-----------------|-------|--|--|-------------------------|
| CDRH125NP-1R3NC | 1R3 | 1.3 $\begin{matrix} +30\% \\ -20\% \end{matrix}$ | 0.012(0.009) | 8.00 |
| CDRH125NP-2R1NC | 2R1 | 2.1 $\begin{matrix} +30\% \\ -20\% \end{matrix}$ | 0.014(0.011) | 7.00 |
| CDRH125NP-3R1NC | 3R1 | 3.1 $\begin{matrix} +30\% \\ -20\% \end{matrix}$ | 0.017(0.013) | 6.00 |
| CDRH125NP-4R4NC | 4R4 | 4.4 $\begin{matrix} +30\% \\ -20\% \end{matrix}$ | 0.020(0.016) | 5.00 |
| CDRH125NP-5R8NC | 5R8 | 5.8 $\begin{matrix} +30\% \\ -20\% \end{matrix}$ | 0.021(0.017) | 4.40 |
| CDRH125NP-7R5NC | 7R5 | 7.5 $\begin{matrix} +30\% \\ -20\% \end{matrix}$ | 0.024(0.019) | 4.20 |
| CDRH125NP-100MC | 100 | 10 $\pm 20\%$ | 0.025(0.019) | 4.00 |
| CDRH125NP-120MC | 120 | 12 $\pm 20\%$ | 0.027(0.021) | 3.50 |
| CDRH125NP-150MC | 150 | 15 $\pm 20\%$ | 0.030(0.023) | 3.30 |
| CDRH125NP-180MC | 180 | 18 $\pm 20\%$ | 0.034(0.026) | 3.00 |
| CDRH125NP-220MC | 220 | 22 $\pm 20\%$ | 0.036(0.028) | 2.80 |
| CDRH125NP-270MC | 270 | 27 $\pm 20\%$ | 0.051(0.039) | 2.30 |
| CDRH125NP-330MC | 330 | 33 $\pm 20\%$ | 0.057(0.044) | 2.10 |
| CDRH125NP-390MC | 390 | 39 $\pm 20\%$ | 0.068(0.052) | 2.00 |
| CDRH125NP-470MC | 470 | 47 $\pm 20\%$ | 0.075(0.058) | 1.80 |
| CDRH125NP-560MC | 560 | 56 $\pm 20\%$ | 0.11(0.084) | 1.70 |
| CDRH125NP-680MC | 680 | 68 $\pm 20\%$ | 0.12(0.093) | 1.50 |
| CDRH125NP-820MC | 820 | 82 $\pm 20\%$ | 0.14(0.11) | 1.40 |
| CDRH125NP-101MC | 101 | 100 $\pm 20\%$ | 0.16(0.12) | 1.30 |
| CDRH125NP-121MC | 121 | 120 $\pm 20\%$ | 0.17(0.13) | 1.10 |
| CDRH125NP-151MC | 151 | 150 $\pm 20\%$ | 0.23(0.18) | 1.00 |
| CDRH125NP-181MC | 181 | 180 $\pm 20\%$ | 0.29(0.22) | 0.90 |
| CDRH125NP-221MC | 221 | 220 $\pm 20\%$ | 0.40(0.31) | 0.80 |
| CDRH125NP-271MC | 271 | 270 $\pm 20\%$ | 0.46(0.35) | 0.75 |
| CDRH125NP-331MC | 331 | 330 $\pm 20\%$ | 0.51(0.39) | 0.68 |
| CDRH125NP-391MC | 391 | 390 $\pm 20\%$ | 0.69(0.53) | 0.65 |
| CDRH125NP-471MC | 471 | 470 $\pm 20\%$ | 0.77(0.59) | 0.58 |
| CDRH125NP-561MC | 561 | 560 $\pm 20\%$ | 0.86(0.66) | 0.54 |
| CDRH125NP-681MC | 681 | 680 $\pm 20\%$ | 1.20(0.92) | 0.48 |
| CDRH125NP-821MC | 821 | 820 $\pm 20\%$ | 1.34(1.03) | 0.43 |
| CDRH125NP-102MC | 102 | 1000 $\pm 20\%$ | 1.53(1.18) | 0.40 |

※1. Inductance measuring condition: at 1 kHz.

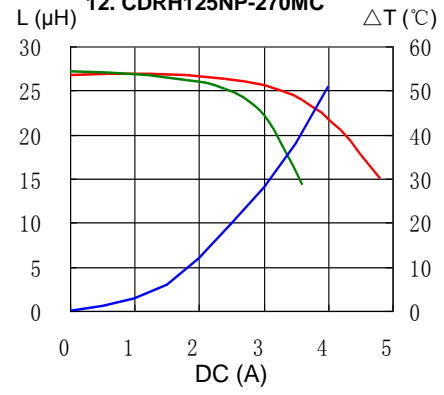
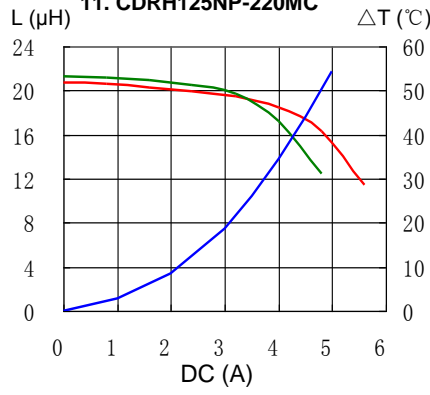
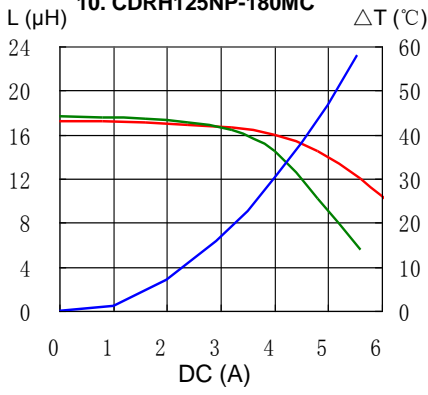
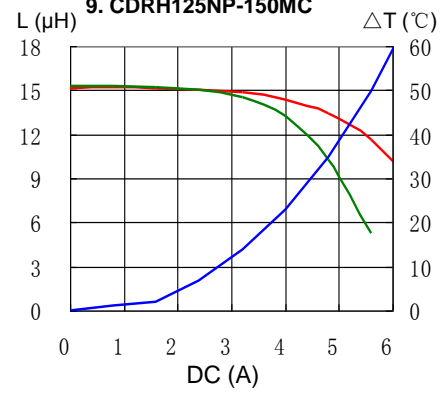
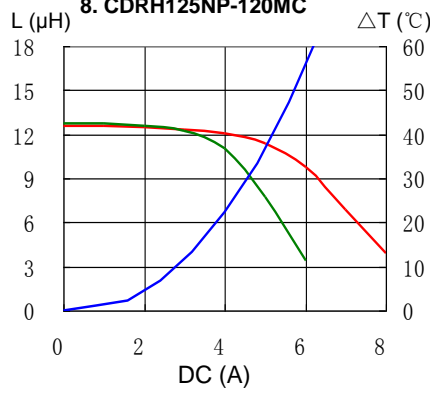
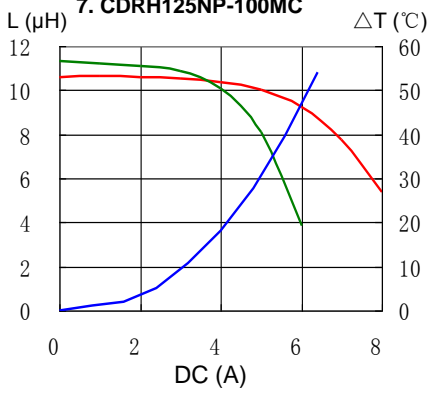
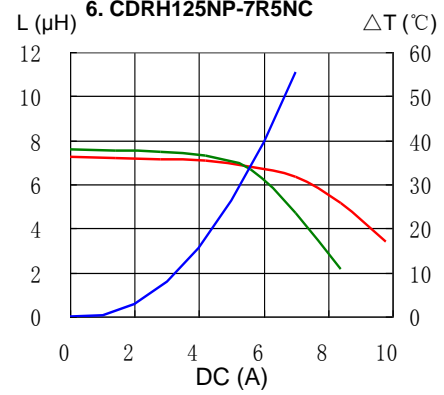
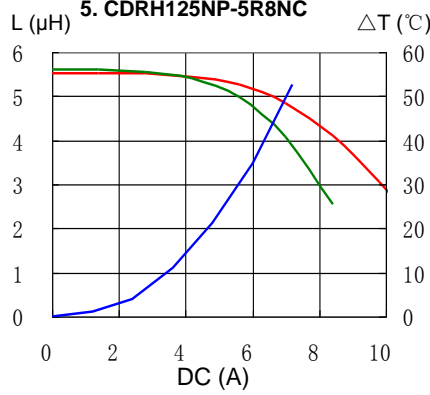
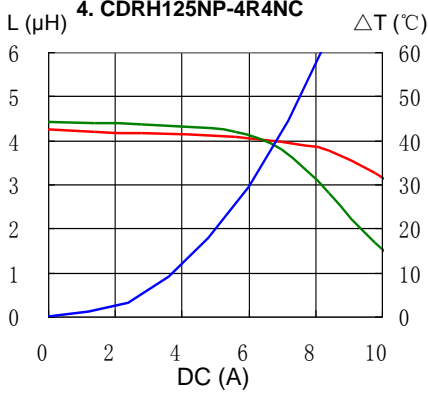
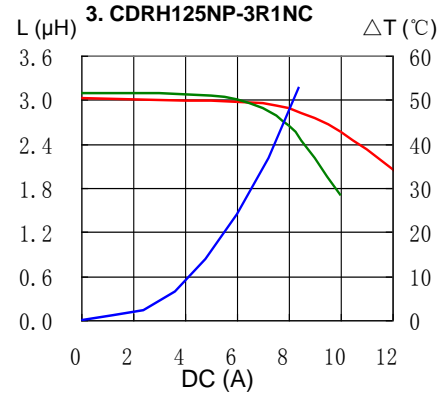
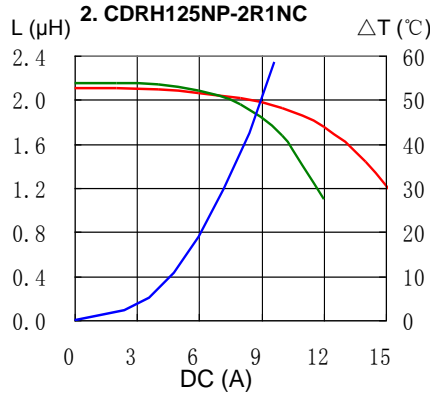
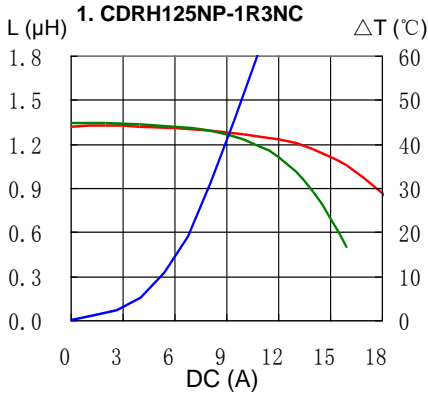
※2. Rated current: The DC current at which the inductance decreases to 75% of its nominal value or when $\Delta t=40^\circ\text{C}$, whichever is lower.

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Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

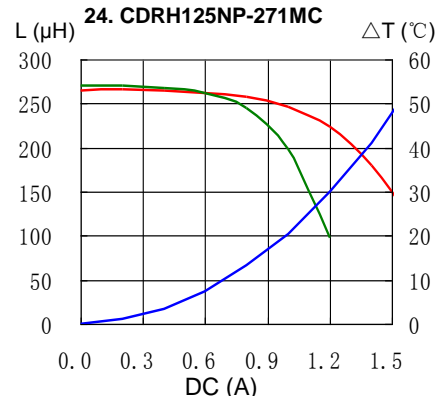
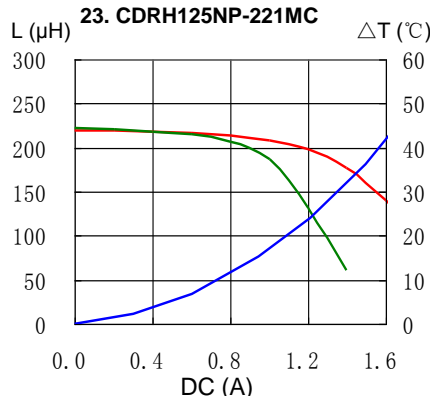
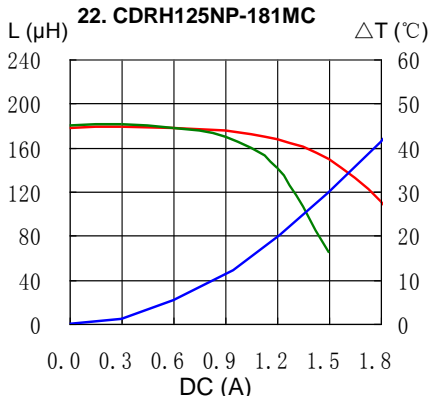
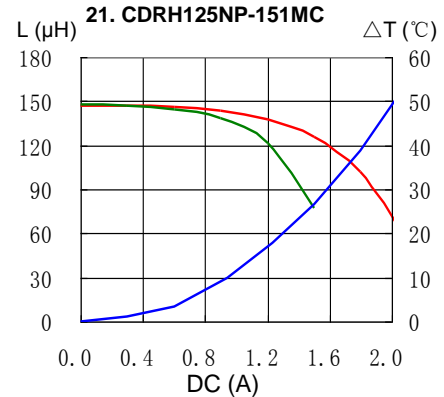
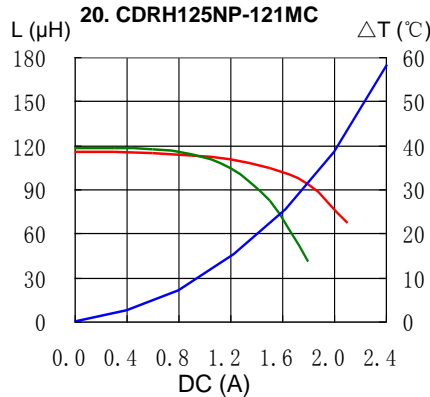
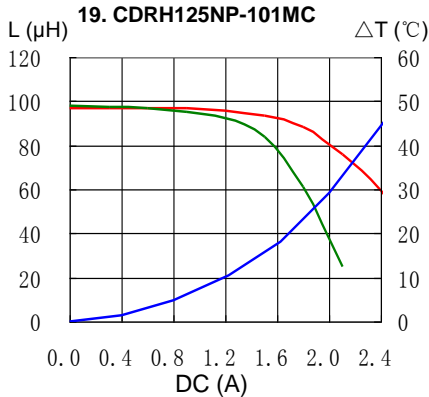
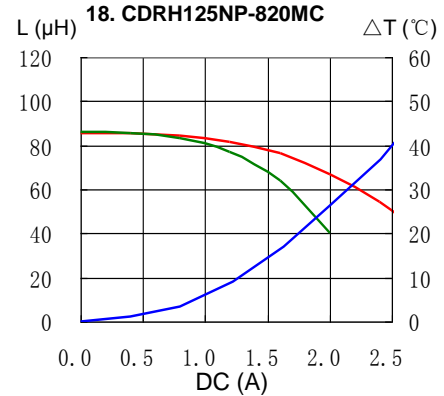
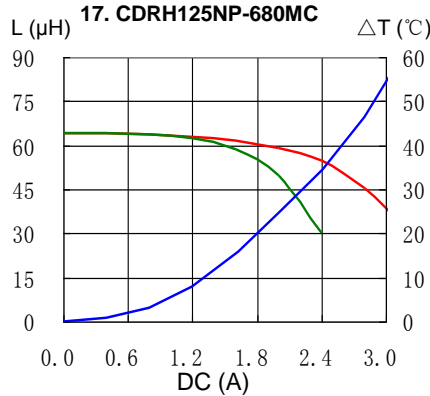
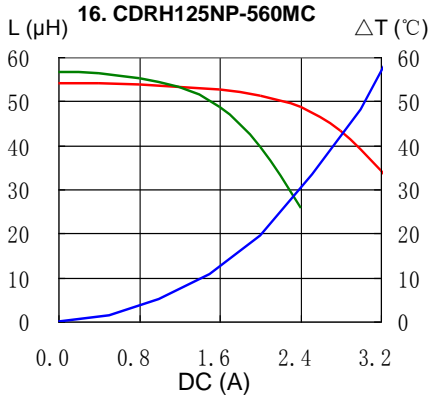
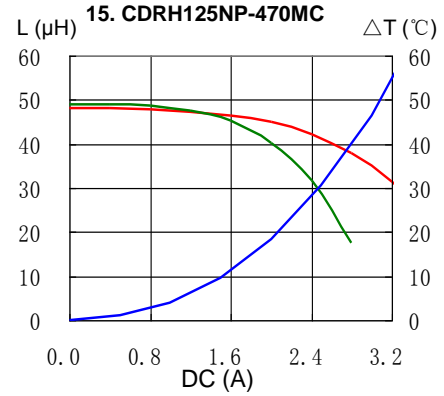
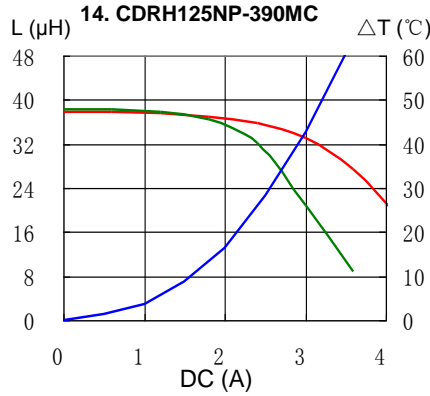
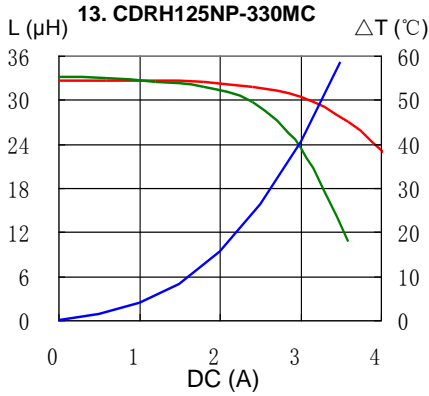


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Saturation Current & Temperature Rise Graph

— L (20°C) — L (100°C) — ΔT

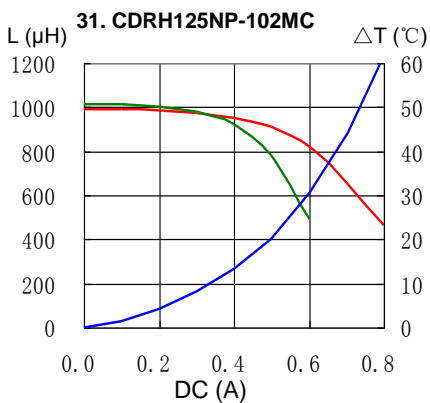
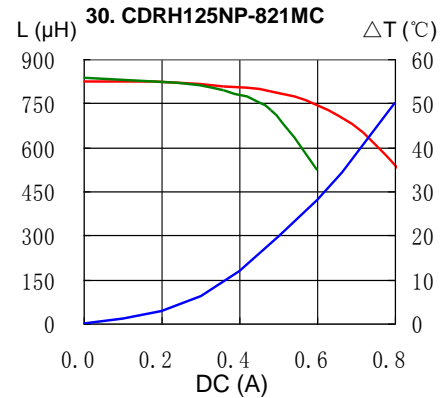
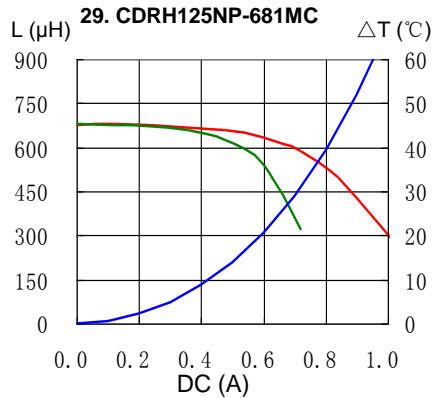
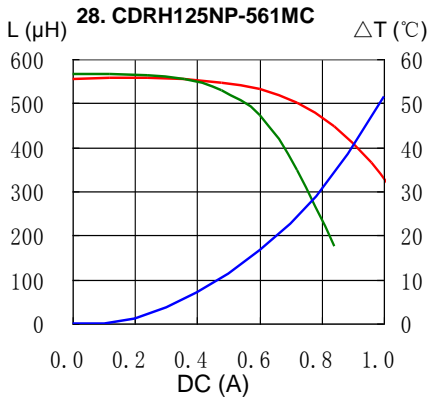
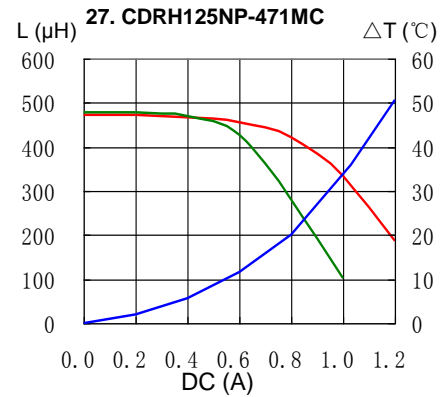
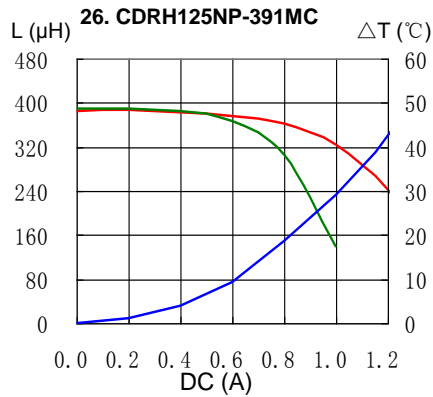
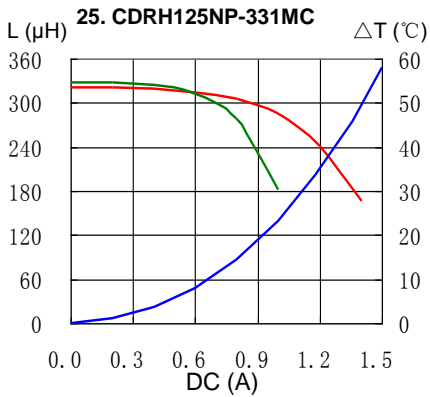


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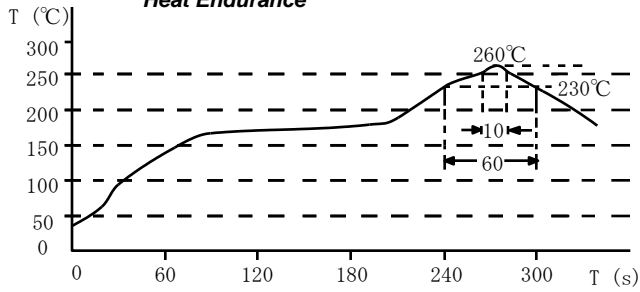


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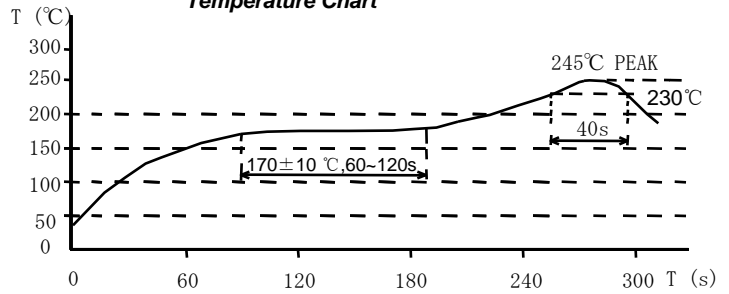


Solder Reflow Condition

Heat Endurance



Temperature Chart



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