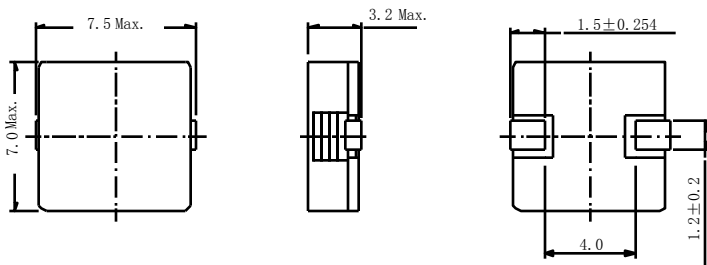


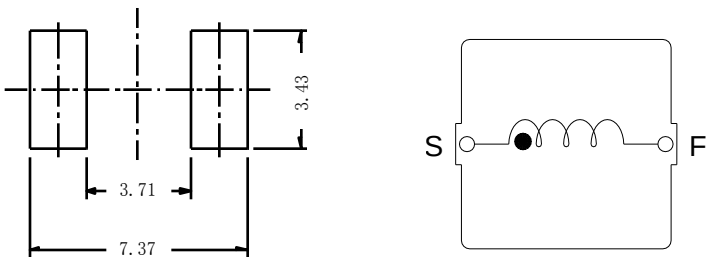
SMD Power Inductor CDEP6D31ME



Dimension - [mm]



Land pattern and Schematics - [mm]



Description

- Metal alloy core construction.
- Magnetically shielded.
- L × W × H: 7.5 × 7.0 × 3.2 mm Max.
- Product weight: 0.72 g (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

- Operating temperature range: -40°C ~ +125°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +85°C
- Solder reflow temperature: 260 °C peak.

Packaging

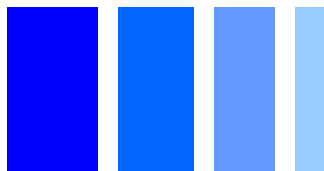
- Carrier tape and reel packaging.
- 13.0" diameter reel
- 1500pcs per reel

Applications

- Ideally used in server, Desktop ,Notebook ,communication devices and other high current application.

SMD Power Inductor

CDEP6D31ME



Electrical Characteristics

Part No.	Stamp	Inductance [Within] ※1	D.C.R. (mΩ) [Max.] (at 20℃)	DC Saturation current (A) ※2	Temperature rise current (A) ※3
CDEP6D31MENP-R47MC	R47	0.47μH±20%	5.9(4.7)	36.0(45.0)	9.2(11.5)
CDEP6D31MENP-R68MC	R68	0.68μH±20%	9.2(7.3)	30.4(38.0)	7.8(8.8)
CDEP6D31MENP-R82MC	R82	0.82μH±20%	9.2(7.3)	23.0(28.8)	7.8(8.8)
CDEP6D31MENP-1R0MC	1R0	1.0μH±20%	14.4(11.5)	21.1(26.4)	6.2(7.1)
CDEP6D31MENP-1R5MC	1R5	1.5μH±20%	15.7(12.5)	15.0(18.8)	6.0(6.6)
CDEP6D31MENP-2R2MC	2R2	2.2μH±20%	21.9(17.5)	12.4(15.5)	4.5(5.2)
CDEP6D31MENP-2R4MC	2R4	2.4μH±20%	21.9(17.5)	9.9(12.4)	4.5(5.2)
CDEP6D31MENP-2R7MC	2R7	2.7μH±20%	21.9(17.5)	8.6(10.8)	4.5(5.2)

※1. Measuring condition: at 100kHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 80% of it's nominal value.

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

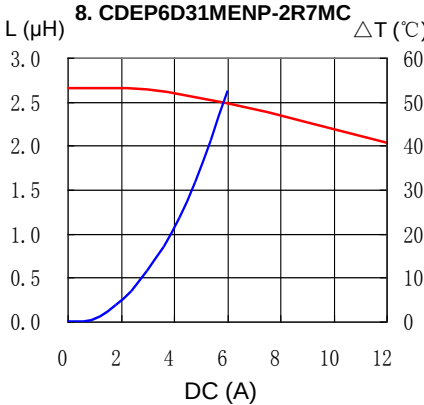
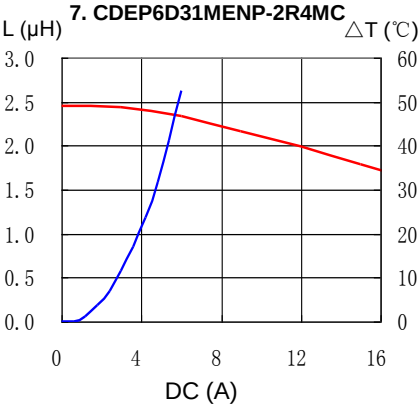
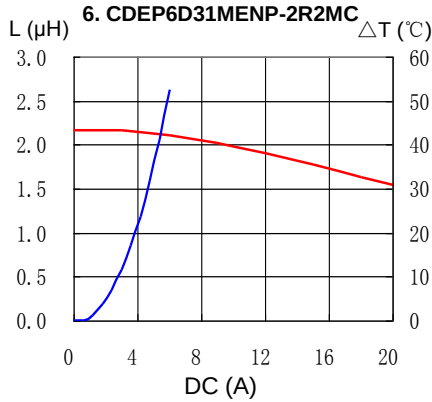
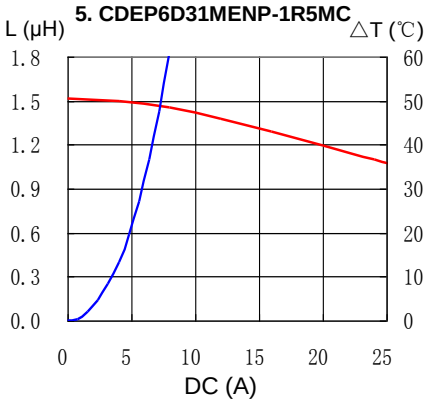
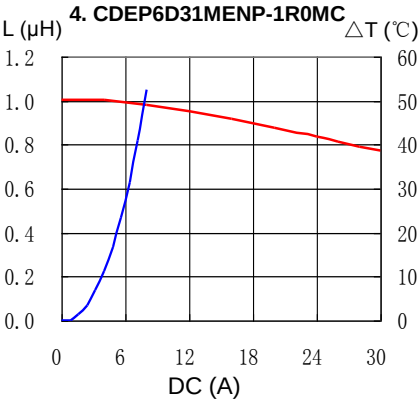
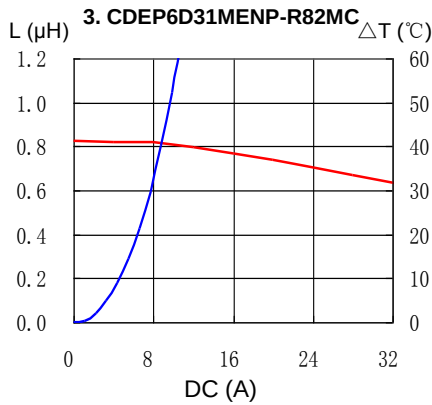
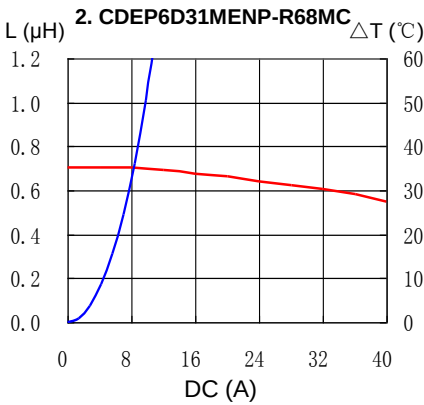
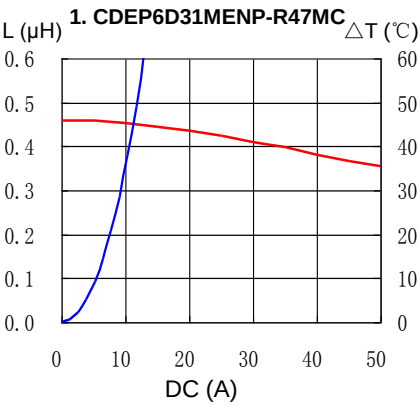
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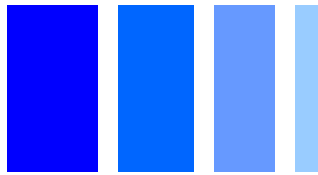


Saturation Current & Temperature Rise Graph

— L (25°C) — ΔT

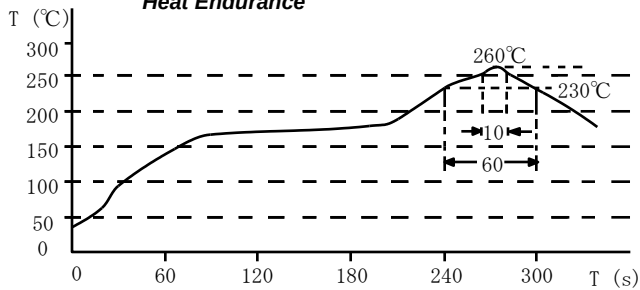


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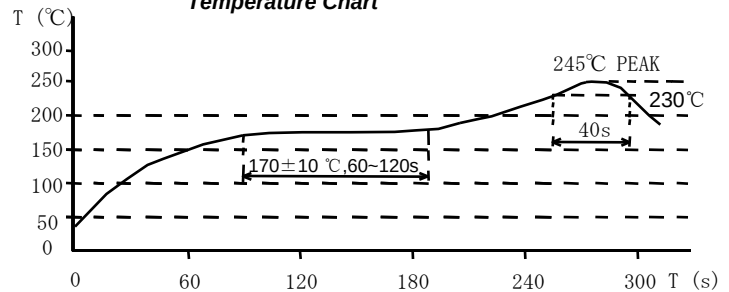


Solder Reflow Condition

Heat Endurance



Temperature Chart



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