

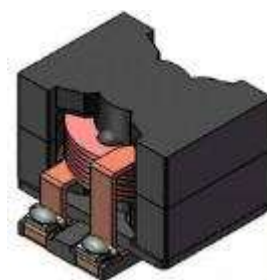
SMD Power Inductor

CDPQ2419



Description

- Ferrite core construction.
- Magnetically shielded.
- LxWxH: 27.5x26.5x20.0mm Max.
- Product weight: 38g(Ref.)
- Moisture Sensitivity Level: 1



Environmental Data

- Operating temperature range: -40°C~+125°C (including coil's self temperature rise)
- Storage temperature range: -40°C~+125°C

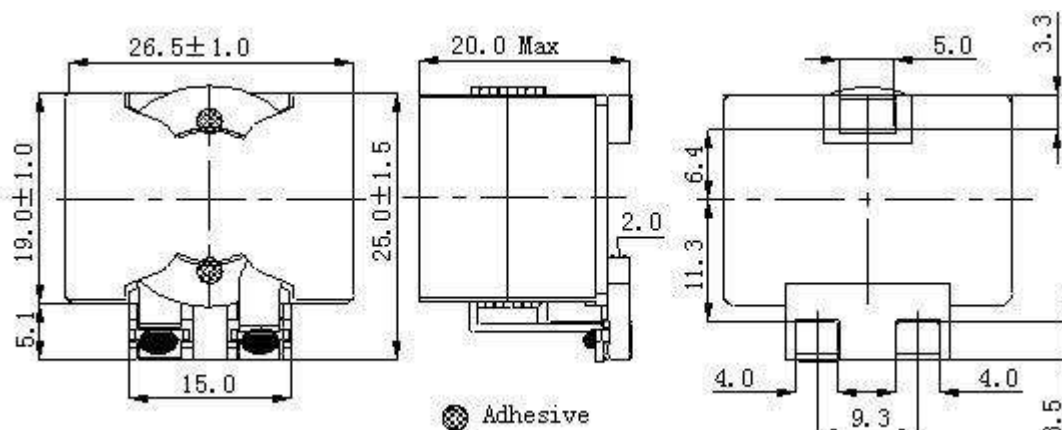
Packaging

- Pallet packaging.
- 40pcs per pallet, 200pcs per package.

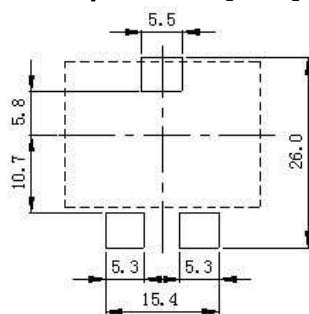
Applications

- High Current Inductor for DC/DC converters in distributed power systems and PV inverters etc.

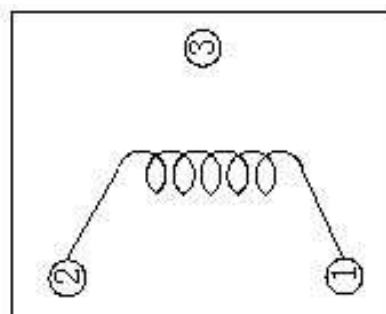
Dimension - [mm]



Recommended Land pattern - [mm]



Wire Connection



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Electrical Characteristics

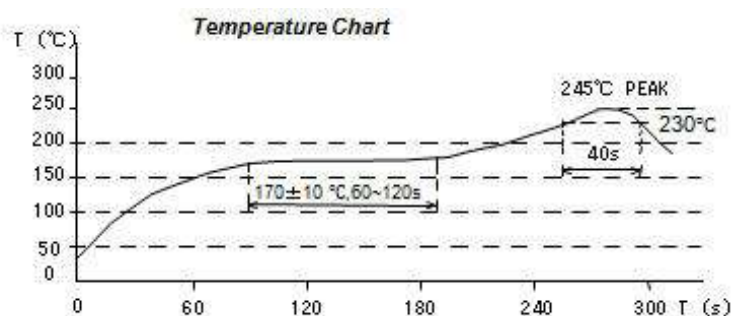
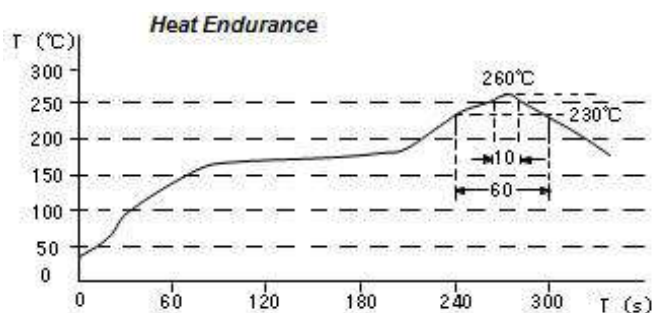
Part Number	Inductance [Within] (μ H) ※1	D.C.R. at 20°C max(typ) (m Ω)	Saturation Current at 20°C (typ) (A) ※2	Temperature Rise Current (A) ※3
CDPQ2419NP-3R3LB-AL51	3.30 \pm 15%	2.86 (2.60)	100	28.00
CDPQ2419NP-4R7LB-AL73	4.70 \pm 15%	2.86 (2.60)	72.00	28.00
CDPQ2419NP-100LB-AL156	10.00 \pm 15%	2.86 (2.60)	35.00	28.00
CDPQ2419NP-220LB-AL343	22.00 \pm 15%	2.86 (2.60)	16.00	28.00

※1 Measuring condition 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 $\Delta T=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

Solder Reflow Condition



SMD Power Inductor

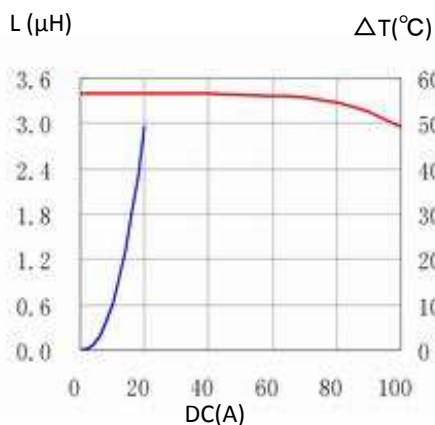
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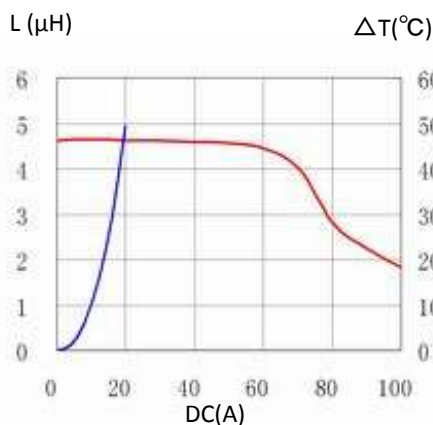
Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT

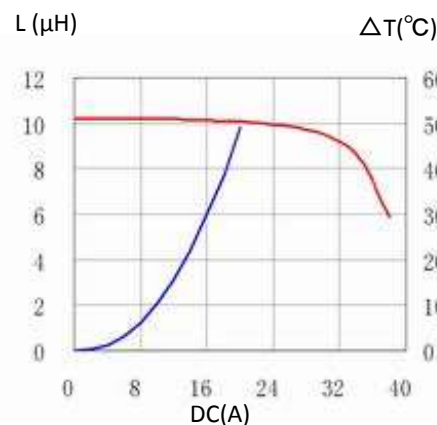
1. CDPQ2419NP-3R3LB-AL51



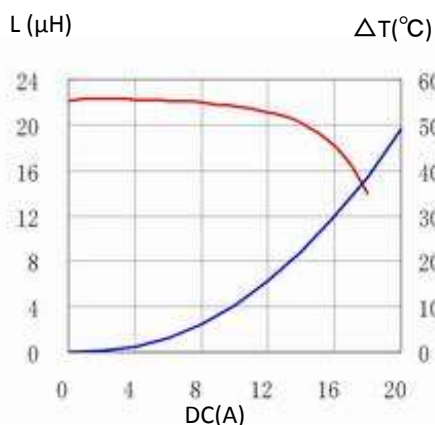
2. CDPQ2419NP-4R7LB-AL73



3. CDPQ2419NP-100LB-AL156



4. CDPQ2419NP-220LB-AL343



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