

SMD Power Inductor

CDPH49D19F



RoHS

Description

- Ferrite core construction.
- Magnetically shielded.
- L × W × H: 5.1 × 5.1 × 2.0 mm Max.
- Product weight: 0.5g(Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.

Environmental Data

- Operating temperature range: -40°C ~ +105°C (including coil's self temperature rise)
- Storage temperature range: -40°C ~ +105°C
- Solder reflow temperature: 260 °C peak.

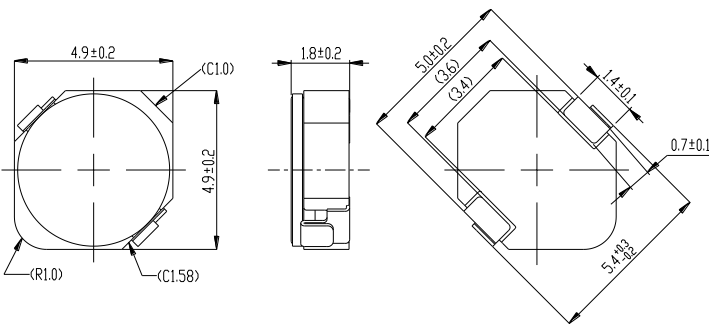
Packaging

- Carrier tape and reel packaging.
- 13.0" diameter reel
- 3000pcs per reel

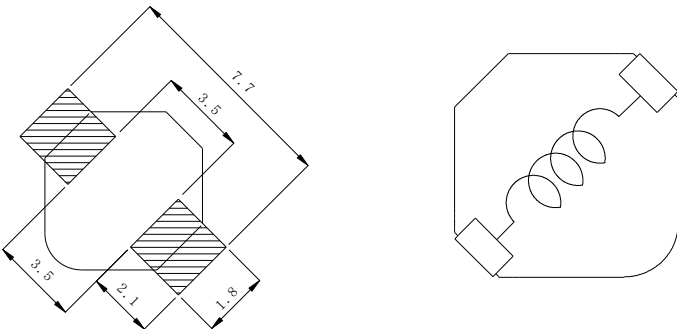
Applications

- Ideally used in Mobile phone, PDA, MP3, DSC/DVC, etc as DC-DC converter inductors.

Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

Part No.	Inductance(μH) [Within] ※1	D. C. R. (mΩ) [Max.] (at 20°C)	Saturation current (A) ※2		Temperature rise current (A) ※3
			(at 20°C)	(at 105°C)	
CDPH49D19FNP-1R1NC	1.1 ± 30%	33 (26)	5.50	4.40	3.40
CDPH49D19FNP-2R2NC	2.2 ± 30%	50 (40)	3.90	3.30	2.70
CDPH49D19FNP-3R3MC	3.3 ± 20%	65 (52)	3.20	2.40	2.20
CDPH49D19FNP-4R7MC	4.7 ± 20%	85 (68)	2.50	2.10	1.80
CDPH49D19FNP-100MC	10.0 ± 20%	188 (150)	1.75	1.45	1.25

※1 Measuring frequency at 100kHz,1V

※2 Saturation current: The value of DC current when the inductance decreases to 70% of it's nominal value.(Ta = 20°C)

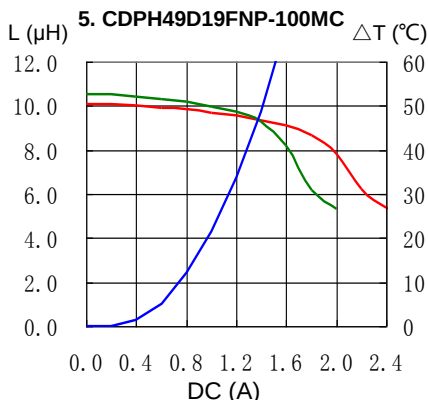
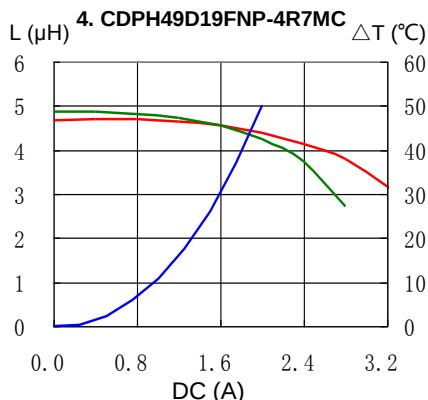
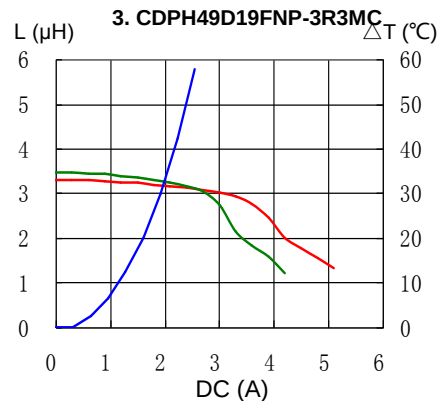
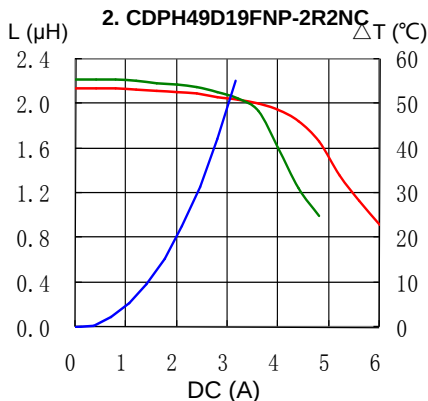
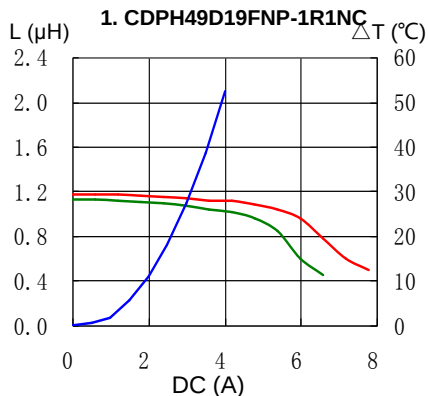
※3 Temperature rise current: The value of DC current when the temperature rise is ΔT=40°C.

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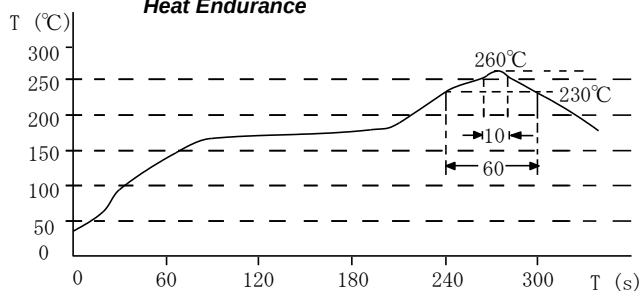
Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT

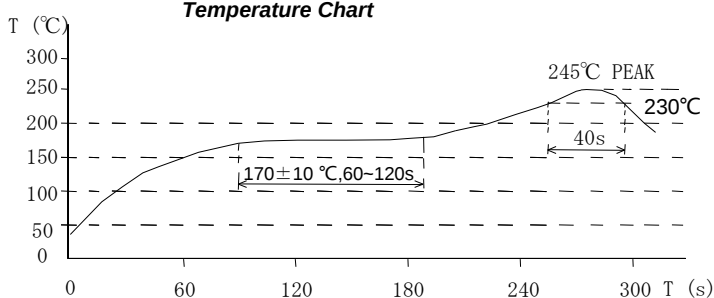


Solder Reflow Condition

Heat Endurance



Temperature Chart



Please refer to the sales offices on our website - <http://www.sumida.com>

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