SMD Power Inductor

177CDMCC/DS

Description

- Metal compound molding type construction.
- Magnetically shielded.
- Low audible core noise.
- Suitable for large current.
- L×W×H:17.45×17.15×7.0mm Max.
- Product weight: 11.5 g (Ref.)
- Moisture Sensitivity Level: 1

Environmental Data

- Operating temperature range: -55°C~+125°C (including coil's self temperature rise)
- Storage temperature range: -55°C~+125°C

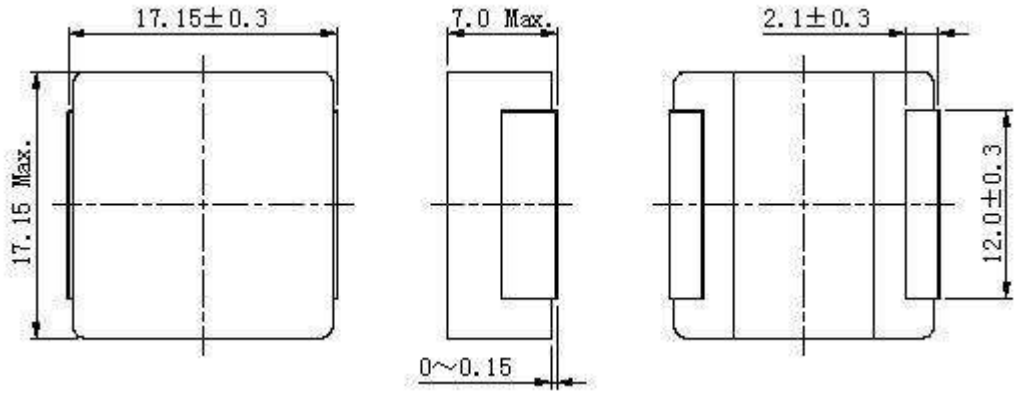
Packaging

- Carrier tape and reel packaging
- 200pcs per reel

Applications

- Ideally used in notebook, tablet PC, LCD display, Server application.
- High current, POL converters.
- Low profile, high current power supplies.
- Battery powered devices.
- DC/DC converters in distributed power systems.

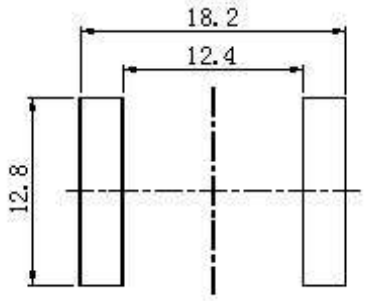
Dimension - [mm]



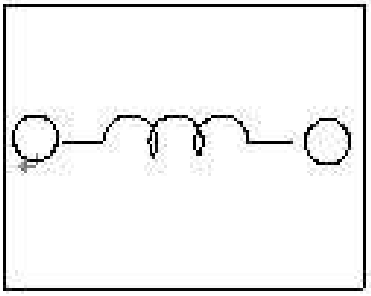
SMD Power Inductor

177CDMCC/DS

Recommended Land pattern - [mm]



Wire Connection



SMD Power Inductor

177CDMCC/DS

Electrical Characteristics

Part Number	Inductance [Within] (μH) ※1	D.C.R. at 20℃ max(typ) (mΩ)	Saturation Current at 20℃(A) ※2	Temperature Rise Current (A) ※3
177CDMCCDS-R47MC	0.47 ± 20%	0.90 (0.78)	85.50	57.00
177CDMCCDS-R68MC	0.68 ± 20%	1.21 (1.05)	80.00	47.00
177CDMCCDS-1R0MC	1.00 ± 20%	1.38 (1.20)	60.80	44.60
177CDMCCDS-2R2MC	2.20 ± 20%	2.65 (2.30)	40.80	31.20
177CDMCCDS-3R3MC	3.30 ± 20%	3.11 (2.70)	31.80	26.50
177CDMCCDS-4R7MC	4.70 ± 20%	4.83 (4.20)	35.00	18.00
177CDMCCDS-6R8MC	6.80 ± 20%	7.13 (6.20)	24.70	16.70
177CDMCCDS-8R2MC	8.20 ± 20%	9.20 (8.00)	22.60	14.50
177CDMCCDS-100MC	10.00 ± 20%	10.60 (9.20)	21.30	13.50
177CDMCCDS-150MC	15.00 ± 20%	14.70 (12.80)	17.00	12.50
177CDMCCDS-220MC	22.00 ± 20%	25.30 (22.00)	16.00	8.80
177CDMCCDS-330MC	33.00 ± 20%	38.00 (33.00)	11.40	7.20
177CDMCCDS-470MC	47.00 ± 20%	49.20 (42.80)	9.10	6.50

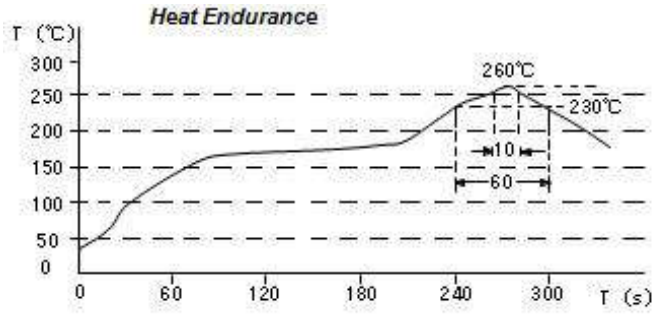
Measuring frequency: Inductance at 100kHz, 1V

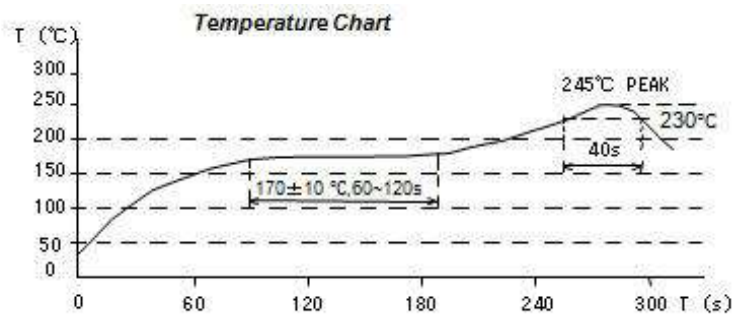
Saturation current: The actual value of DC current when the inductance is over 70% of the initial value.

Temperature rise current: The actual value of DC current when the coil temperature rise is △T=40℃.

(Test board condition : FR4, Copper=70μm, four-layer PWB, t=1.6mm)

Solder Reflow Condition





Note : This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

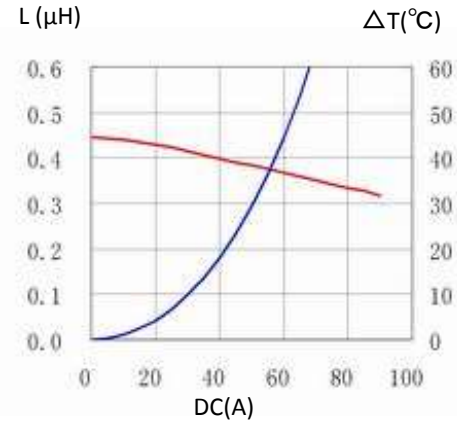
SMD Power Inductor

177CDMCC/DS

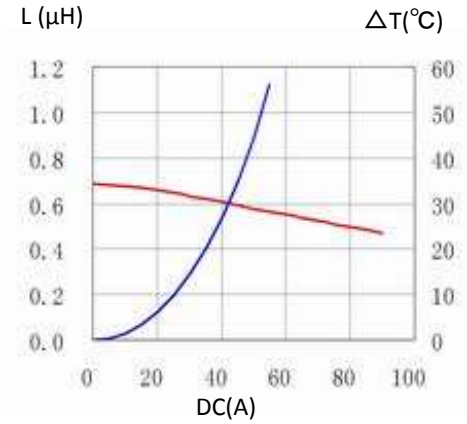
Saturation Current & Temperature Rise Graph

L (20°C) ΔT

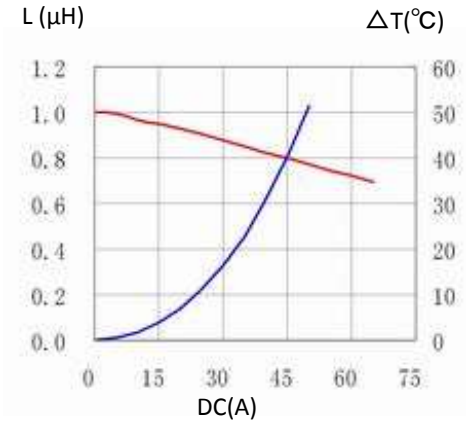
1. 177CDMCCDS-R47MC



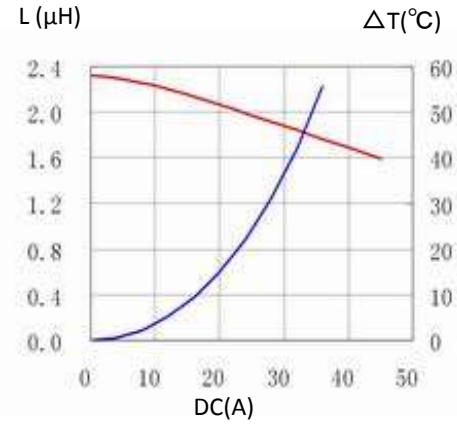
2. 177CDMCCDS-R68MC



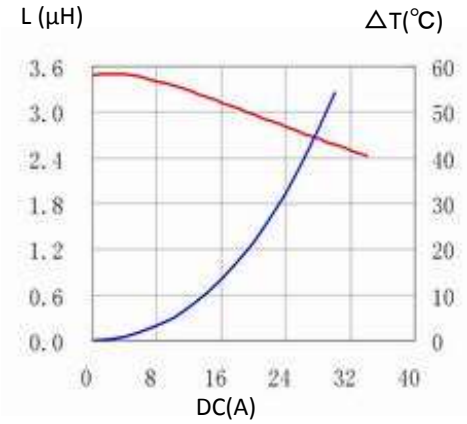
3. 177CDMCCDS-1R0MC



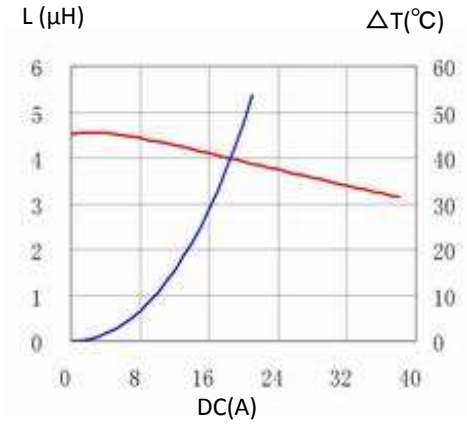
4. 177CDMCCDS-2R2MC



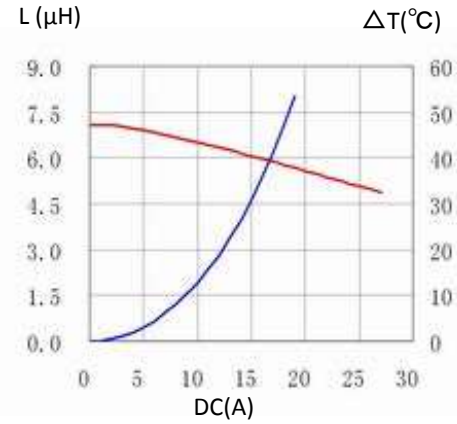
5. 177CDMCCDS-3R3MC



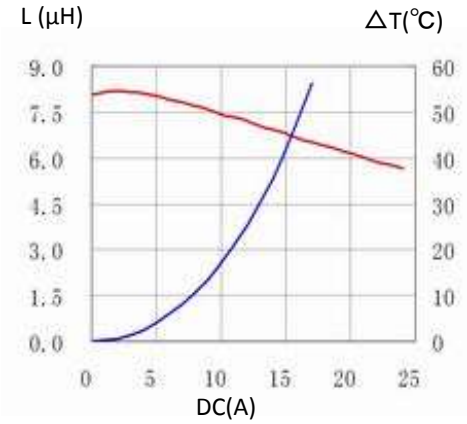
6. 177CDMCCDS-4R7MC



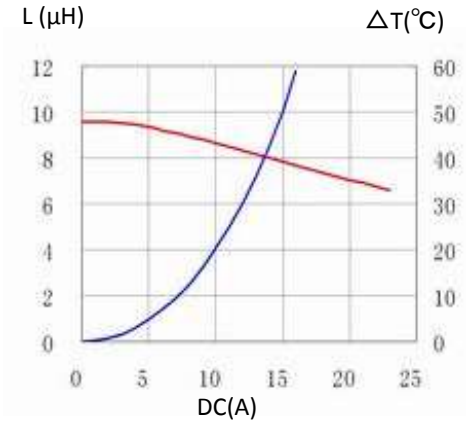
7. 177CDMCCDS-6R8MC



8. 177CDMCCDS-8R2MC



9. 177CDMCCDS-100MC

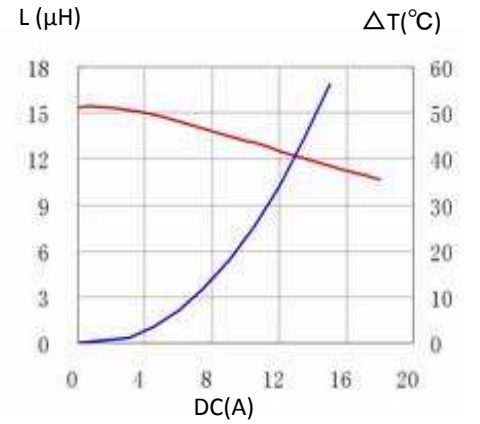


Note : This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

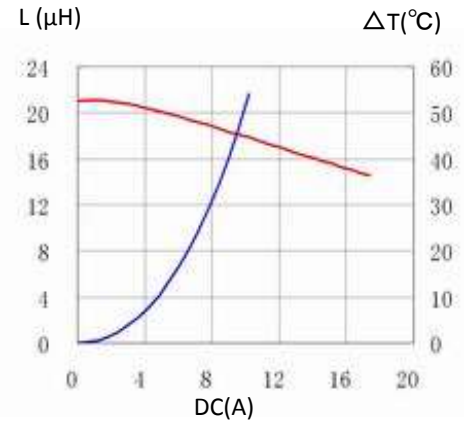
SMD Power Inductor

177CDMCC/DS

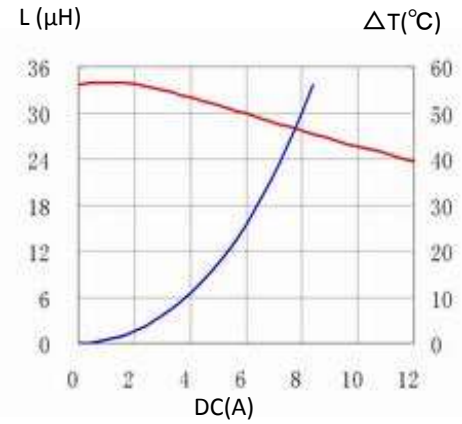
10. 177CDMCCDS-150MC



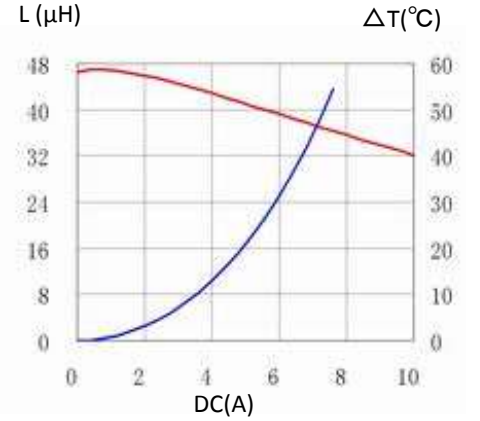
11. 177CDMCCDS-220MC



12. 177CDMCCDS-330MC



13. 177CDMCCDS-470MC



For sales office information, please click here to visit our website.