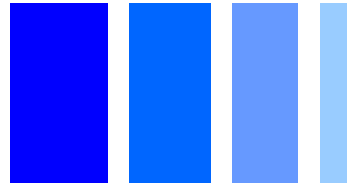


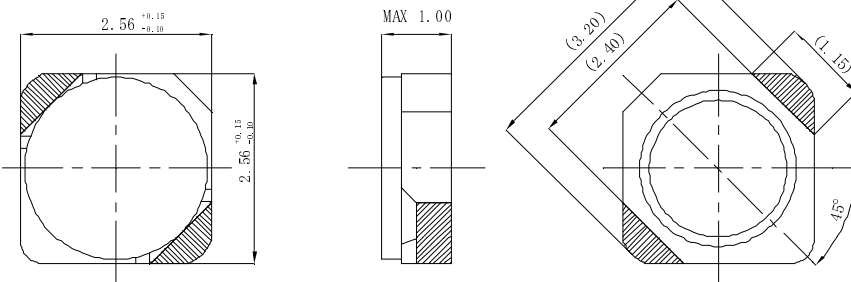
SMD Power Inductor CDR25D09/LA



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 2.71 × 2.71 × 1.0 mm Max.
- Product weight: 0.02g(Ref.)
- Moisture Sensitivity Level: 1
- Special design to improve ACR, operating frequency up to 6MHz.
- RoHS compliance.
- Halogen Free available.

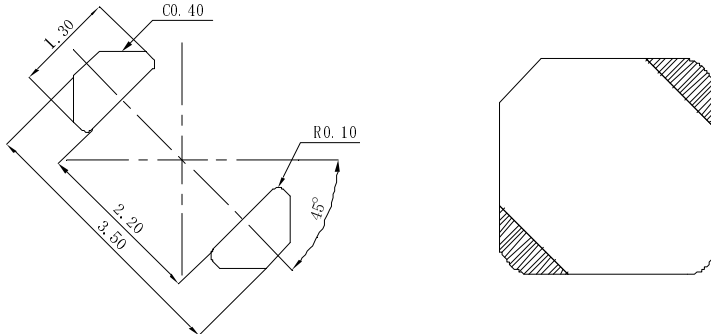
Dimension - [mm]



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.

Land pattern and Schematics - [mm]



Packaging

- Carrier tape and reel packaging

Applications

- Ideally used in MP3/MP4, smart phone, PDA, DSC/DVC, etc.

Electrical Characteristics

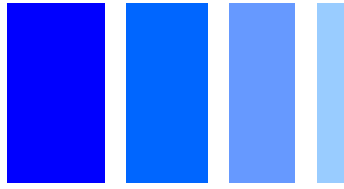
Part name	Stamp	Inductance (μ H) [Within] ※1	D.C.R. (m Ω) [Within] (at 20°C)	Saturation current (A) ※2 (at 20°C)	Temperature rise current (A) ※3 $\Delta T=40^\circ\text{C}$
CDR25D09LANP-R47PC	A	0.47 ± 25%	37 ± 25%	1.60	2.25
CDR25D09LANP-R68PC	B	0.68 ± 25%	53 ± 25%	1.28	1.70
CDR25D09LANP-1R0PC	C	1.00 ± 25%	63 ± 25%	1.09	1.55
CDR25D09LANP-1R5PC	D	1.50 ± 25%	106 ± 20%	0.93	1.00
CDR25D09LANP-2R2MC	E	2.20 ± 25%	170 ± 20%	0.74	0.88
CDR25D09LANP-3R3MC	F	3.30 ± 20%	243 ± 20%	0.61	0.69
CDR25D09LANP-4R7MC	G	4.70 ± 20%	382 ± 20%	0.47	0.50
CDR25D09LANP-6R8MC	H	6.80 ± 20%	481 ± 20%	0.41	0.40

※1. Measuring condition: at 1MHz.

※2. Saturation current: The value of D.C. current when the inductance decreases to 70% of its nominal value.

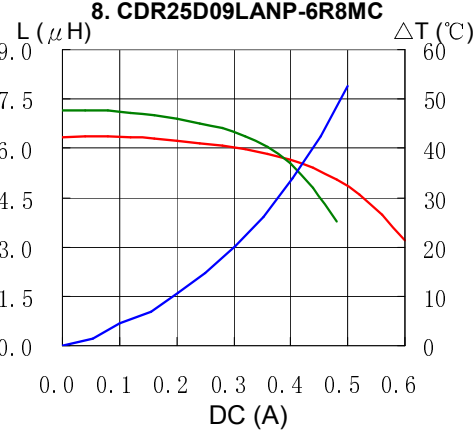
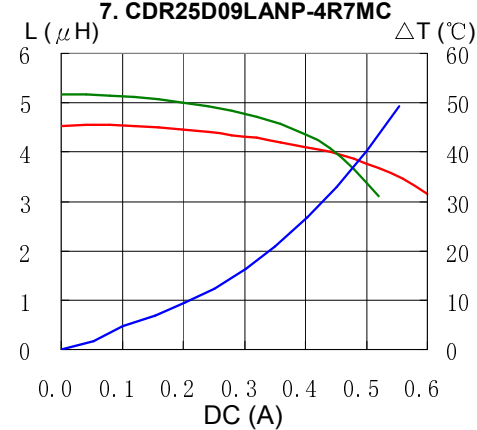
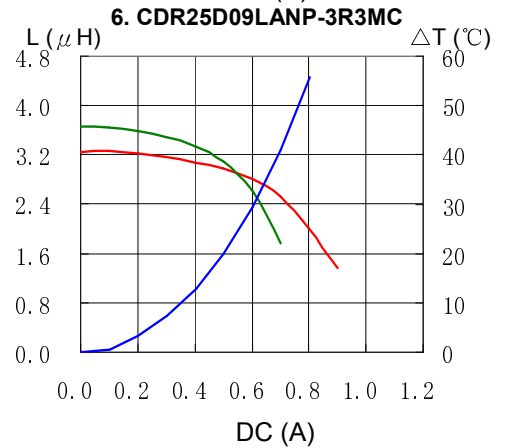
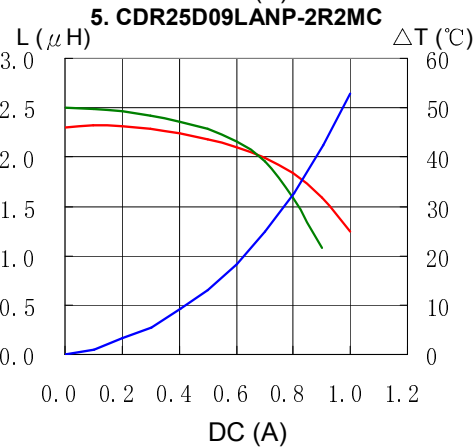
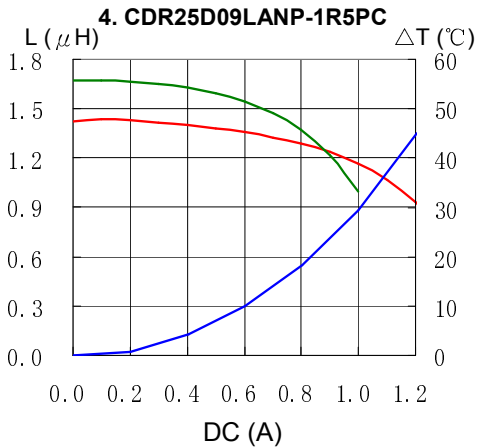
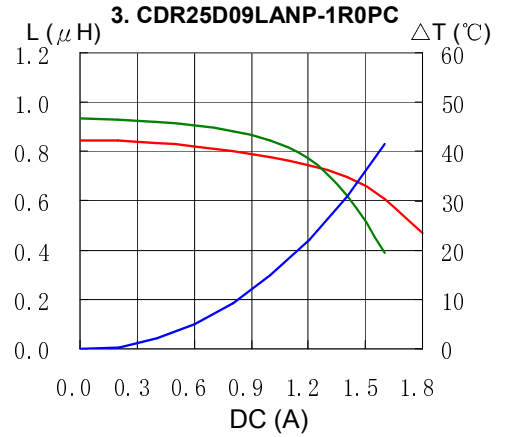
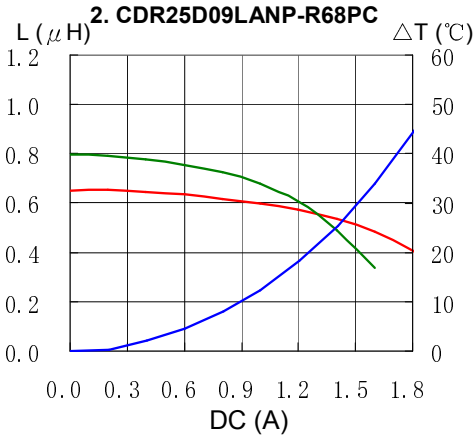
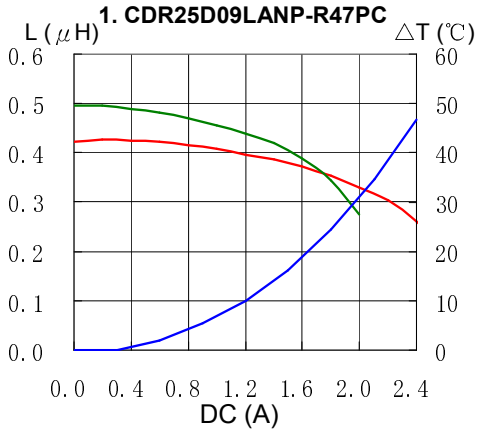
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^\circ\text{C}$ ($T_a=20^\circ\text{C}$).

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Saturation Current & Temperature Rise Graph

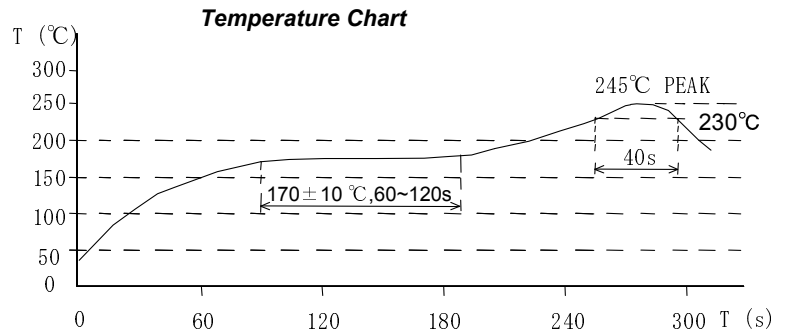
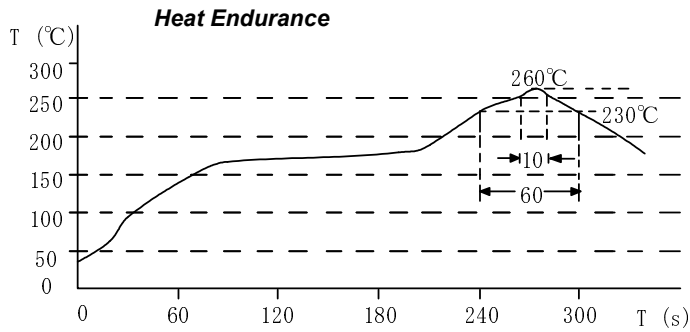
— L (20°C) — L (105°C) — ΔT



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Solder Reflow Condition



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