

SMD Power Inductor CDR25D07/LA

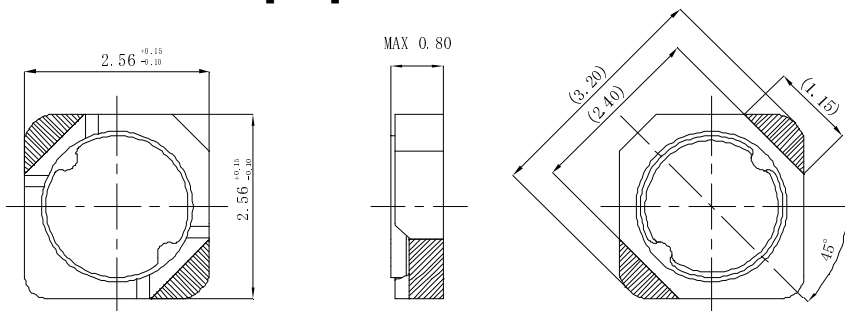


RoHS

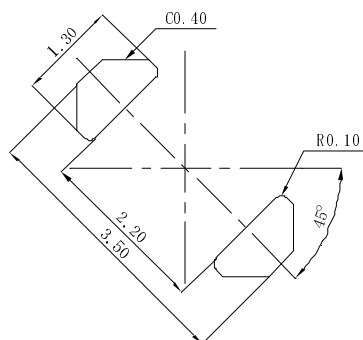
Halogen
Free



Dimension - [mm]



Land pattern and Schematics - [mm]



Description

- Ferrite drum core construction.
- Magnetically shielded.
- L × W × H: 2.71 × 2.71 × 0.8 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.

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

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 $\Delta T=40^{\circ}\text{C}$
CDR25D07LANP-R68PC	A	$0.68 \pm 25\%$	$53 \pm 25\%$	0.78	1.58
CDR25D07LANP-1R0PC	B	$1.0 \pm 25\%$	$104 \pm 20\%$	0.64	0.98
CDR25D07LANP-1R5PC	C	$1.5 \pm 25\%$	$136 \pm 20\%$	0.53	0.87
CDR25D07LANP-2R2PC	D	$2.2 \pm 25\%$	$202 \pm 20\%$	0.45	0.66
CDR25D07LANP-3R3MC	E	$3.3 \pm 20\%$	$331 \pm 20\%$	0.37	0.49
CDR25D07LANP-4R7MC	F	$4.7 \pm 20\%$	$391 \pm 20\%$	0.31	0.45

※1. Measuring condition: at 1MHz.

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

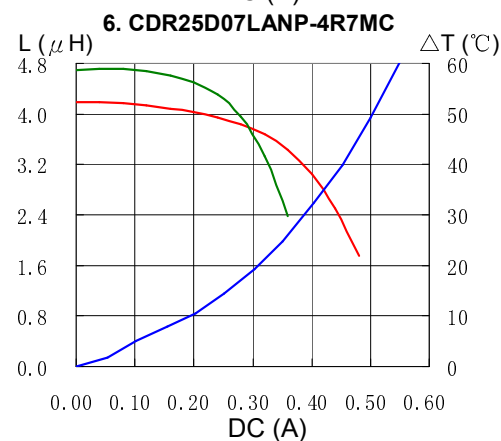
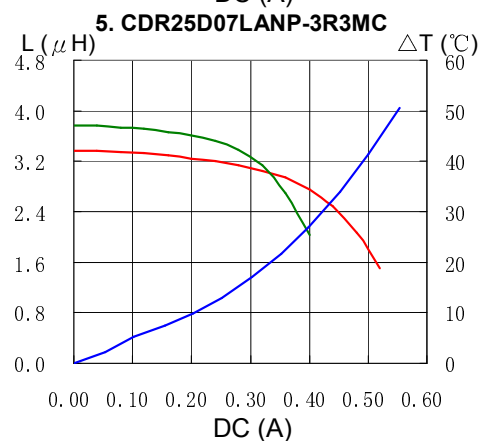
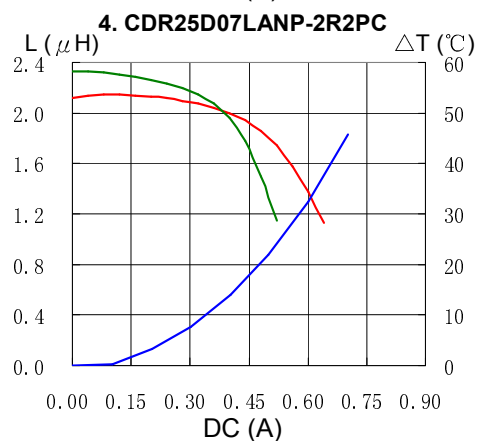
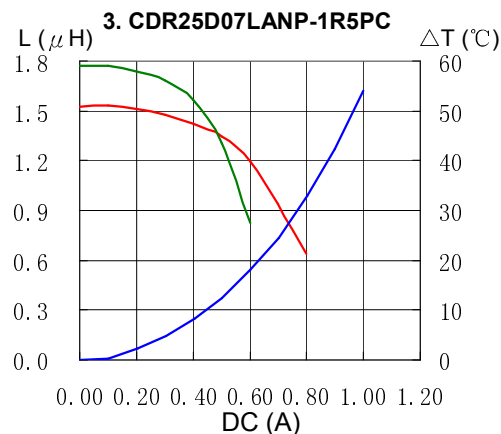
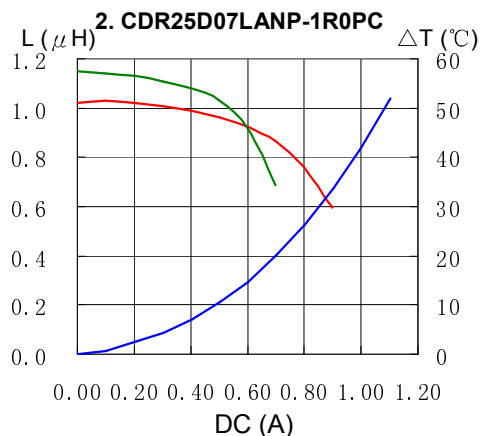
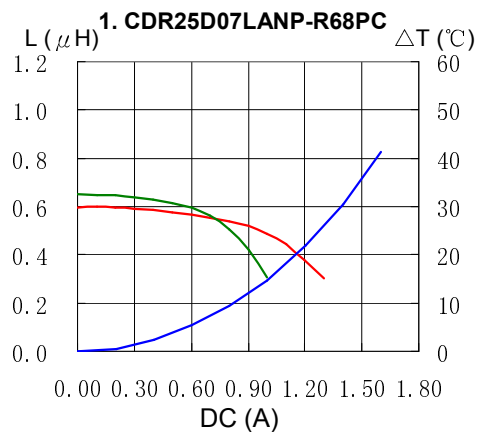
※3. Temperature rise current: The value of D.C. current when the temperature rise is $\Delta t=40^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$).

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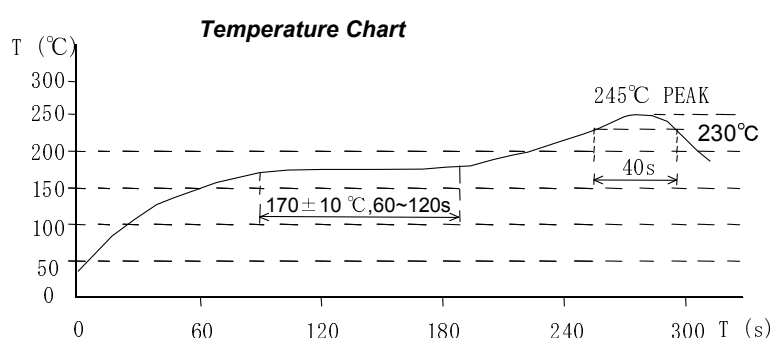
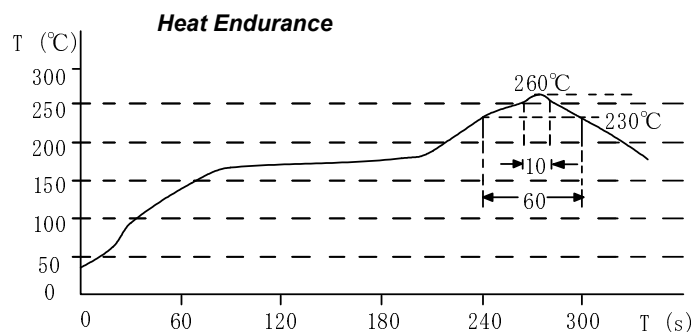


Saturation Current & Temperature Rise Graph

— L (20°C) — L (105°C) — ΔT



Solder Reflow Condition



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