

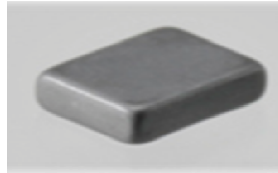
SMD Power Inductor C252010/DS



Under Development



Halogen Free



Description

- Multilayer power inductor.
- Magnetically shielded.
- L × W × H: 2.65 × 2.15 × 1.0 mm Max.
- Product weight: 23mg (Ref.)
- Moisture Sensitivity Level: 1
- RoHS compliance.
- Halogen Free available.

Environmental Data

- Operating temperature range: -30°C ~ +85°C (including coil's self temperature rise)
- Storage temperature range: -30°C ~ +85°C
- Solder reflow temperature: 260 °C peak.

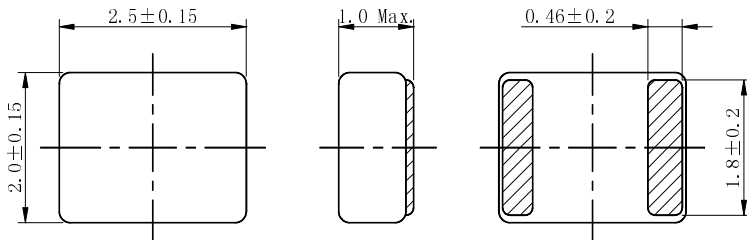
Packaging

- Carrier tape and reel packaging.

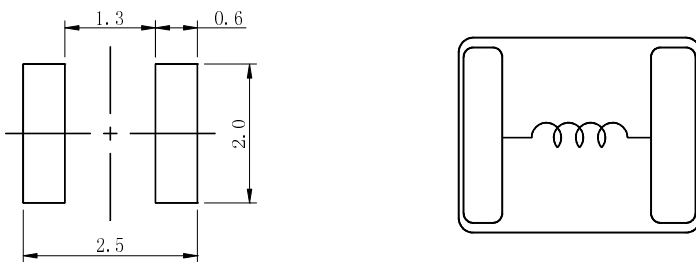
Applications

- Ideally used in DC/DC converters for Smart phones, Cell phones, other portable instruments HDD, and SSD.

Dimension - [mm]



Land pattern and Schematics - [mm]



Electrical Characteristics

Part No.	L (μH) ±20% ※1	D.C.R. (mΩ) ±25%	Saturation current (mA) ※2	Temperature rise Current (mA) ※3
C252010HPB-1R5	1.5	110	1200	1700
C252010HPB-2R2	2.2	180	1400	1200
C252010HPB-3R3	3.3	270	800	1000
C252010HPB-4R7	4.7	270	700	1000
C252010LDB-1R0	1.0	105	1500	1700
C252010LDB-2R2	2.2	145	800	1400
C252010LDB-4R7	4.7	165	300	1300
C252010WB-1R0	1.0	80	1700	1900
C252010WB-3R3	3.3	230	1000	1000
C252010WB-4R7	4.7	320	800	900

※1. Inductance measuring condition: at 3MHz.

※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 Δt=40°C (Ta=25°C).

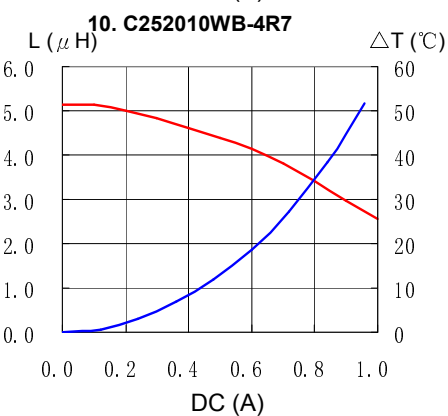
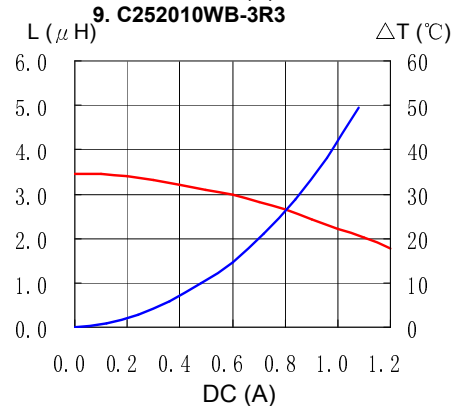
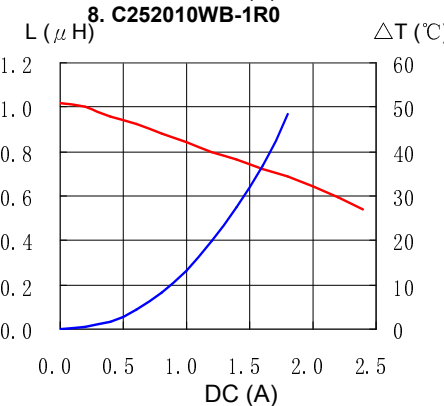
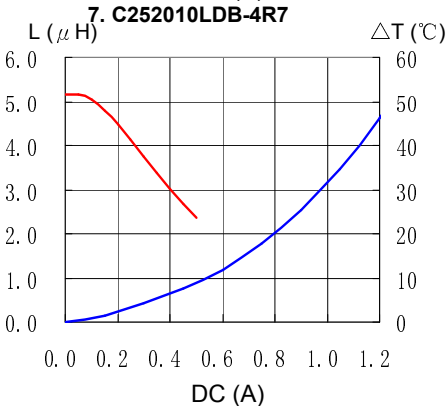
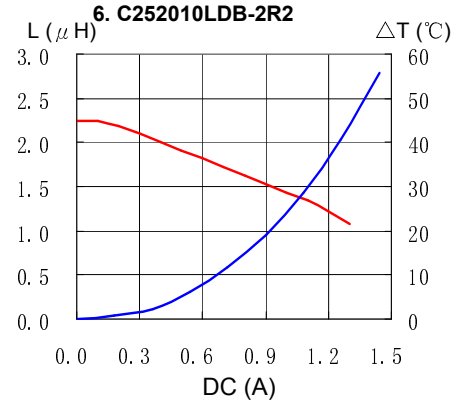
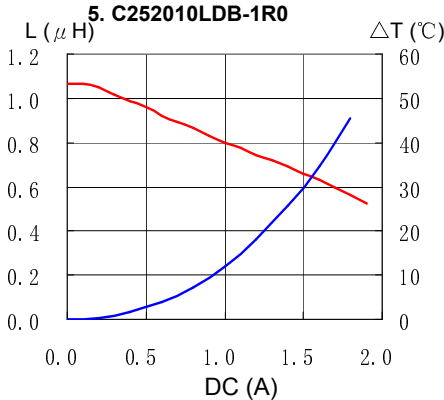
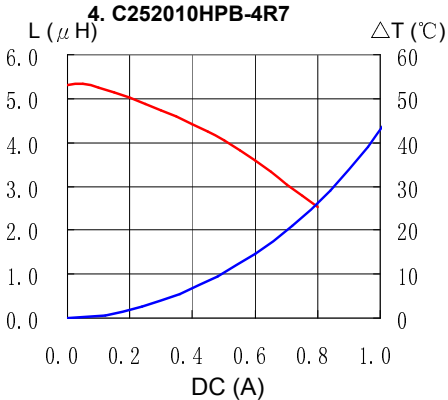
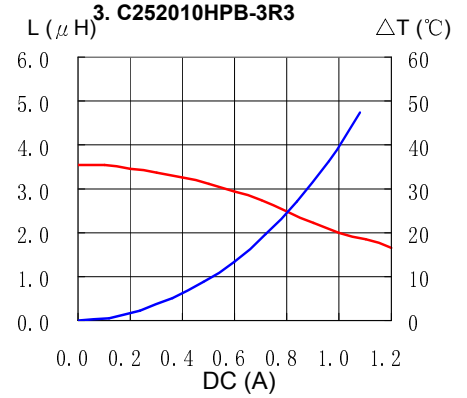
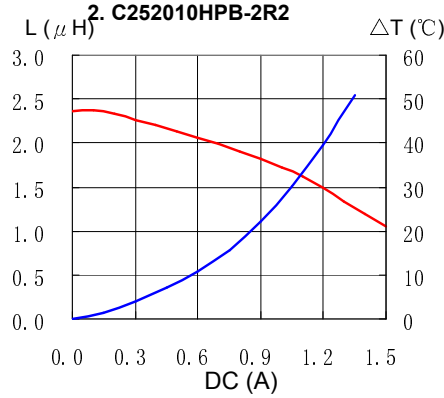
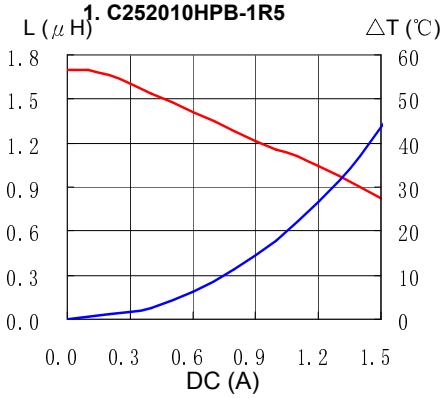
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Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT



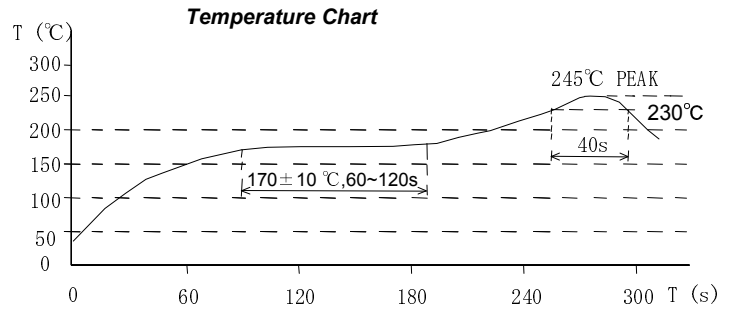
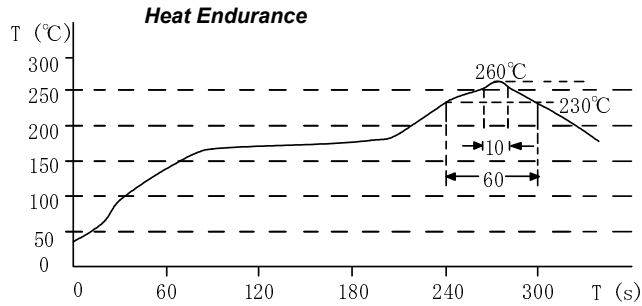
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Solder Reflow Condition



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