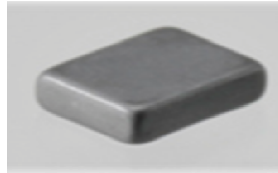


SMD Power Inductor C322512/DS



Under Development



Description

- Multilayer power inductor.
- Magnetically shielded.
- L × W × H: 3.35 × 2.65 × 1.2 mm Max.
- Product weight: 50mg (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.

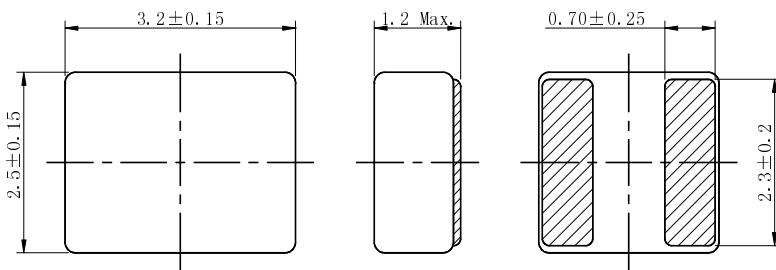
Packaging

- Carrier tape and reel packaging.

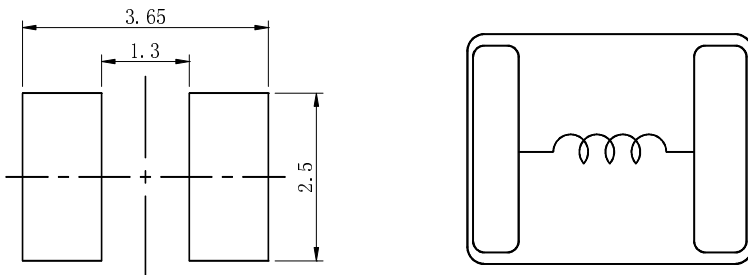
Applications

- 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

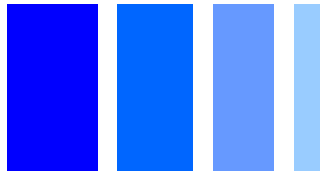
Part No.	L(μH) ±20% ※1	D.C.R. (mΩ) ±25%	Saturation current (mA) ※2	Temperature rise Current (mA)※3
C322512HPB-R47	0.47	32	3000	3000
C322512HPB-1R0	1.0	50	2500	2300
C322512HPB-2R2	2.2	100	2200	1800

※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).

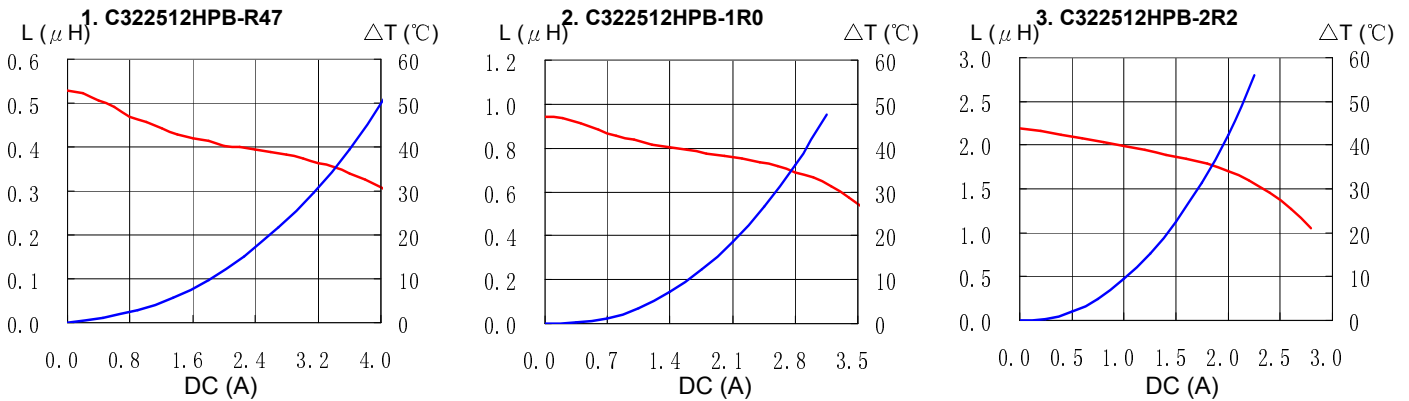
SMD Power Inductor C322512/DS



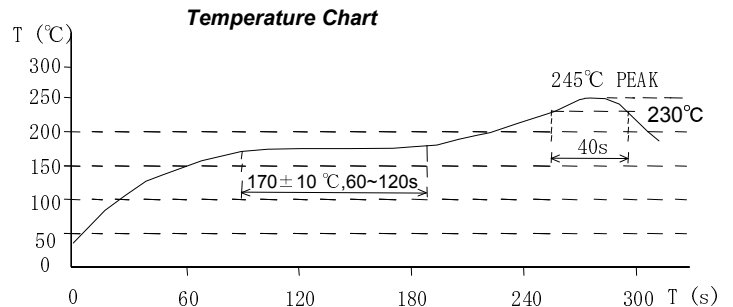
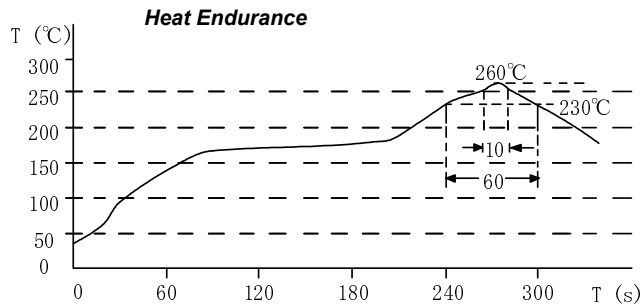
Under Development

Saturation Current & Temperature Rise Graph

— L (20°C) — ΔT



Solder Reflow Condition



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