MP322510A Series

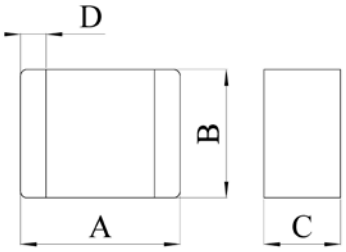
1. Features:

- 1210 Foot Print (3.2x2.5mm)
- 1.0mm Max. height SMD Power Inductor
- Inductance range from 0.47uH to 2.2uH.
- High saturation current characteristics in a compact size.
- Ideal for portable device, PAD, Notebook, smart phone & High Density DC to DC converter Board.
- Max. withstand voltage 25VDC.
- Working Frequency up to 5Mhz.
- Tape & Reel Quantity: 3,000 piece per 6 inches reel.
- Operating Temperature Range -40°C to + 85°C.

2. Electrical Characteristics:

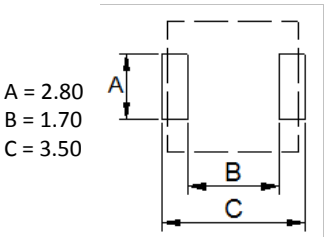
ITG Part Number	OCL (uH) ±30%	DCR (mΩ) Typ.	DCR (mΩ) Max.	Irms (AMP)	Isat1 (Amp)
MP322510A-R47NHF	0.47	28	36	2.75	4.50
MP322510A-1R0NHF	1.00	45	53	2.30	4.00
MP322510A-2R2NHF	2.20	96	110	1.50	2.90

3. Mechanical Dimensions (unit: mm):



A ± 0.20	B ± 0.20	C Max.	D ± 0.20
3.20	2.50	1.00	0.60

Recommended PCB Layout
(Unit mm)



Notes:

1.Open Circuit Inductance(OCL), L@ Irms and L @Isat are measured at 100KHz,1.0V, (Ta=25℃).
2.Isat1: DC current that causes inductance to drop approximately by 30% from OCL.
3.Irms: DC current for an approximate temperature rise of 40℃ without core loss. Derating is necessary for AC currents, PCB pad layout, trace thickness and width, air-flow and proximity of other heat generating components will affect the temperature rise. It is recommended the part temperature not exceed 85°C under worst case operating conditions verified in the end application.
4.Inductance vs. DC Current vs. Temperature Curve, please see the next pages for more detail information.

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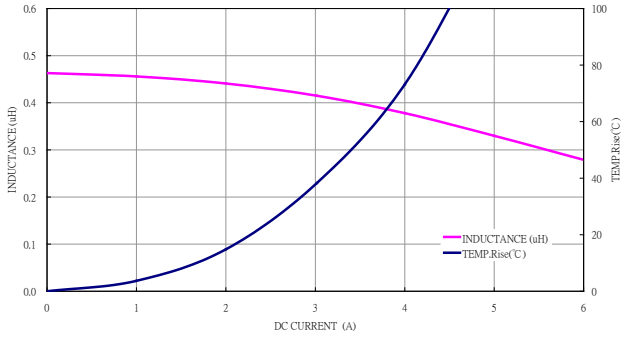
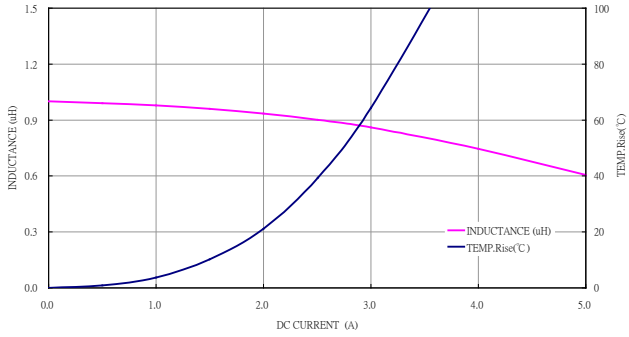
4. Inductance vs. Current vs. Temperature

MP322510A-R47NHF



MP322510A-1R0NHF



MP322510A-2R2NHF