

1. Features of SC7338H Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 1.2uH to 12.0uH, Custom values are welcomed.
- High current output chokes, up to 83.0 Amp with approx. 20% roll off.
- Low Profile 9.50 mm/10.00 mm Max. height .
- Foot Print 19.50 x 18.20 mm .
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency up to 1.0 MHz application.
- Operating Temperature Range -55° C to +130° C , RoHs & HF compliance .
- T & R Qtys: 200 pcs , 13" Reel ;

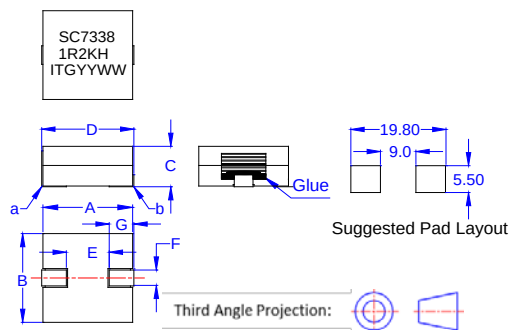


2. Electrical Characteristic of SC7338H Series:

ITG Part Number	OCL ¹ (uH) ± 10%	L @ Isat1 ² (uH) Min.	DCR ³ (mΩ) ± 10%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @100°C	Irms ⁵ (A) @25°C	Dim C mm Max
SC7338H-1R2KHF	1.20	0.86	1.70	83.00	68.00	22.00	10.00
SC7338H-1R5KHF	1.50	1.08	1.70	63.00	50.00	22.00	9.50
SC7338H-2R2KHF	2.20	1.58	1.70	53.00	44.00	22.00	10.00
SC7338H-3R3KHF	3.30	2.38	1.70	35.00	28.00	22.00	9.50
SC7338H-5R6KHF	5.60	4.03	1.70	22.00	18.00	22.00	9.50
SC7338H-6R8KHF	6.80	4.90	1.70	18.00	15.00	22.00	9.50
SC7338H-8R2KHF	8.20	5.90	1.70	14.50	11.50	22.00	9.50
SC7338H-9R5KHF	9.50	6.84	1.70	12.50	10.00	22.00	9.50
SC7338H-120KHF	12.00	8.64	1.70	9.50	8.00	22.00	9.50

3. Mechanical Dimension(Unit : mm):

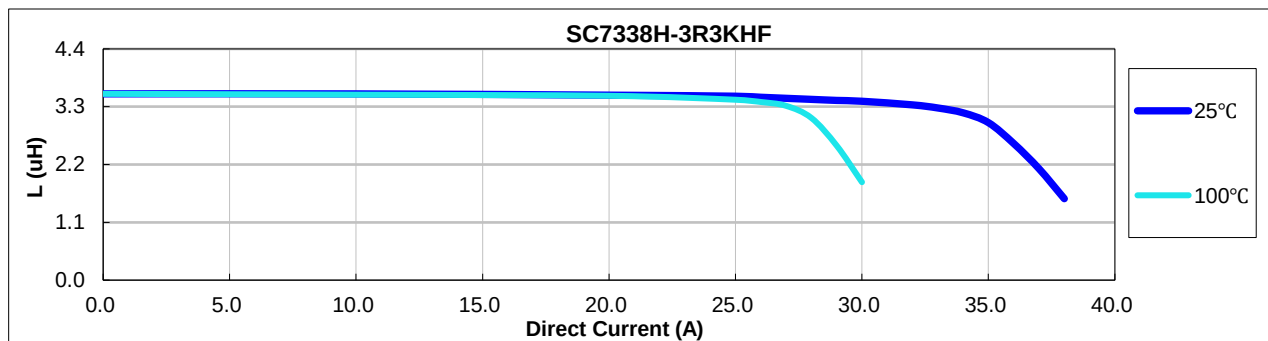
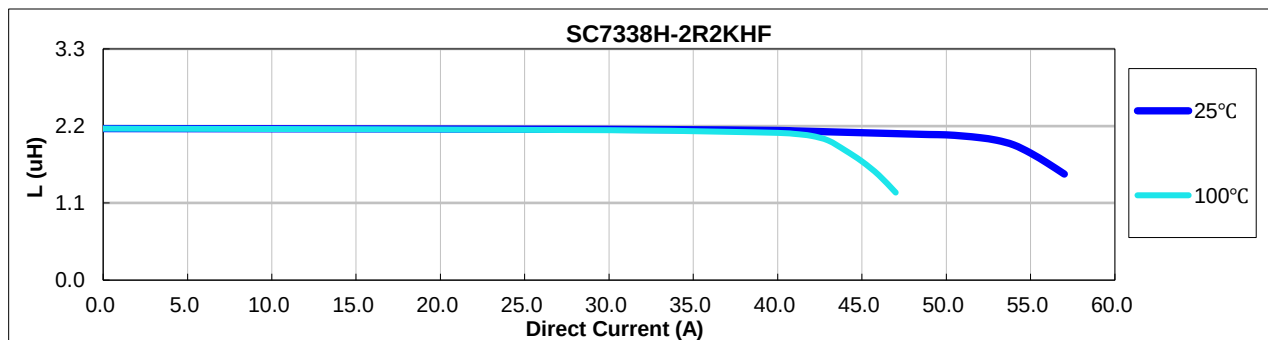
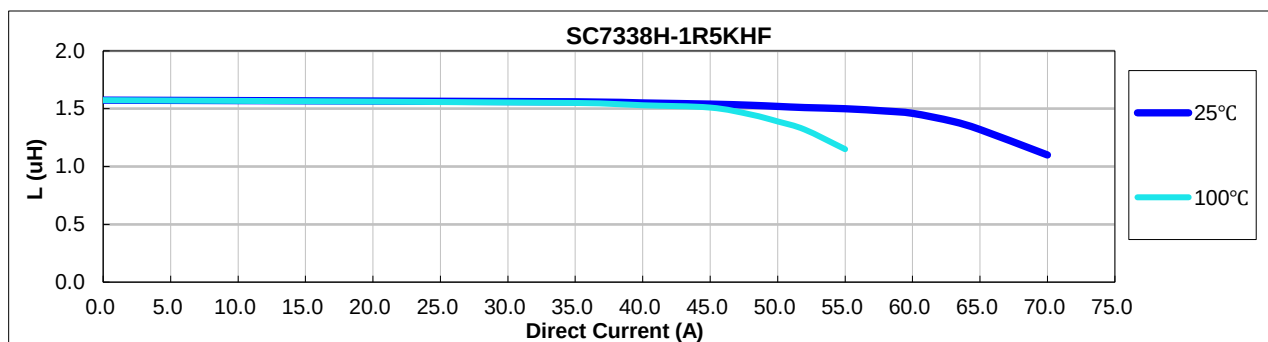
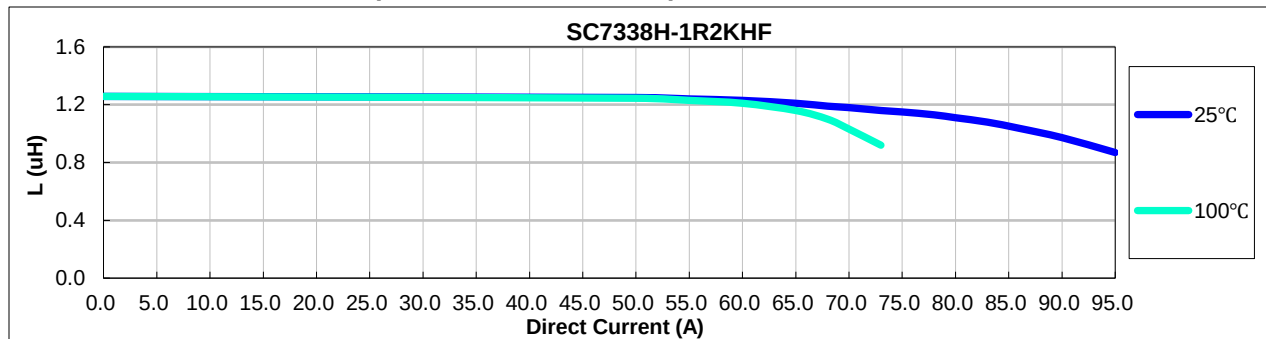
A	B	C	D	E	F	G
± 0.50	± 0.50	Max.	± 1.00	Ref.	± 0.50	± 0.80
18.20	18.20	see above table	19.50	9.30	3.20	4.50

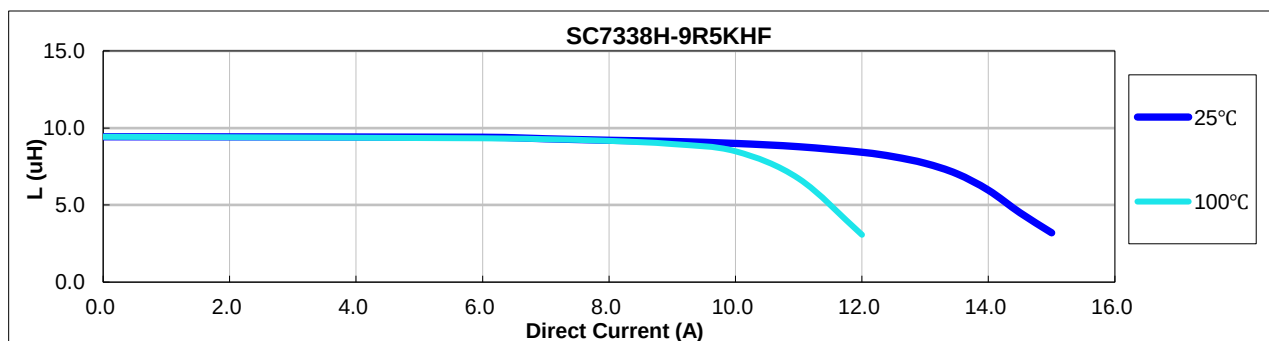
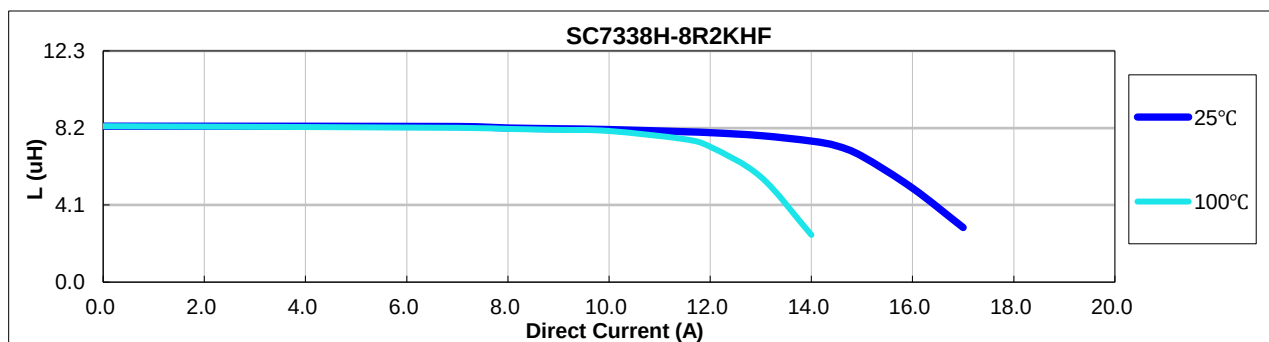
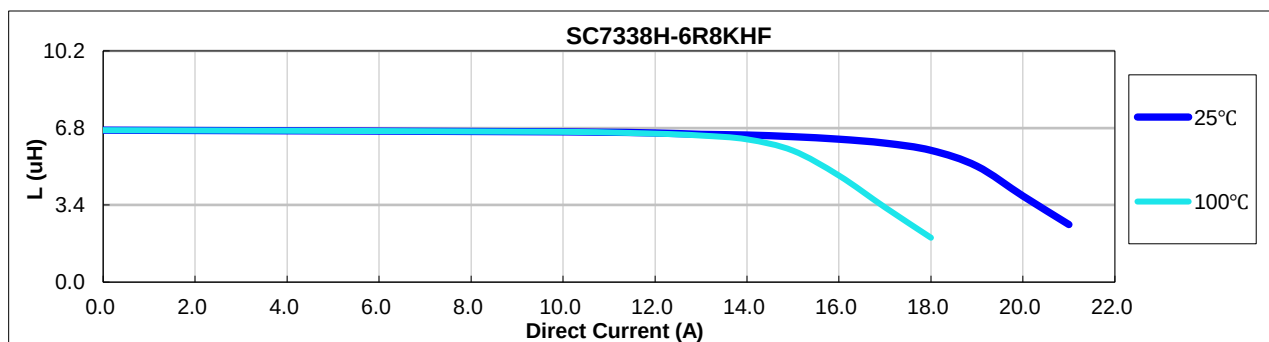
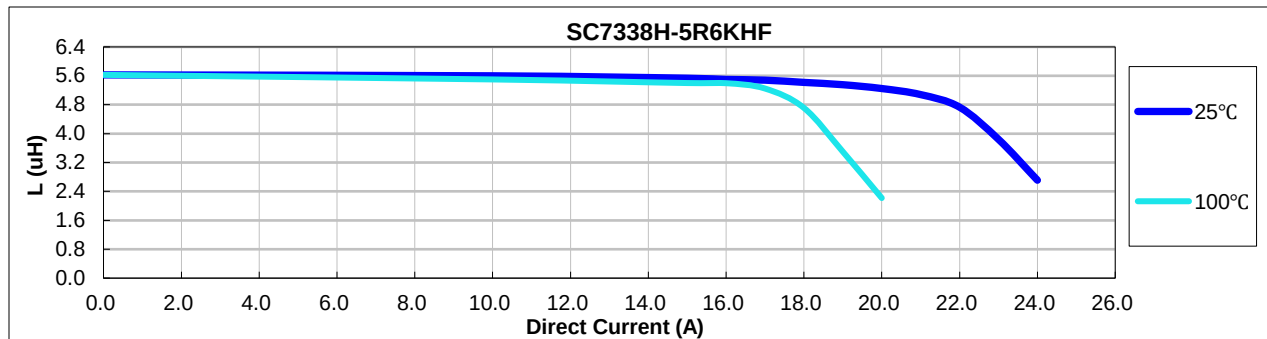


Notes:

1. Open Circuit Inductance (OCL) test condition: 300KHz, 0.25Vrms, 0A_{dc} , at 25 °C.
2. L @ Isat and L @ Irms Test condition: 300KHz, 0.25Vrms (Ta=25 °C).
3. The nominal DCR is measured from point "a" to point "b", as shown above on the mechanical drawing (Ta=25°C).
4. Isat1, & Isat2 : DC current that will cause inductance to drop approximately by 20%.
5. Irms: DC current for an approximate temperature rise of 40°C 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 130 °C under worst case operating conditions verified in the end application.

4. Inductance Characteristics (Inductance vs. Current):







SC7338H Series

