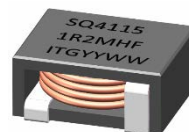


SQ4115 Series



1. Features of SQ4115 Series:

- Ferrite based SMD inductor with lower core loss.
- Inductance range: 0.62uH to 1.4 uH, custom values are welcomed.
- High current output chokes up to 24.0 Amp with approx. 20% roll off.
- Low profile 4.00 mm Max. height.
- 8.10 x 10.30 mm Foot Print.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency of up to 5.0MHz.
- Operating temperature range of -55° C to + 130° C. RoHS & HF compliant.
- T & R Qty's: 1100pcs, 13" Reel.

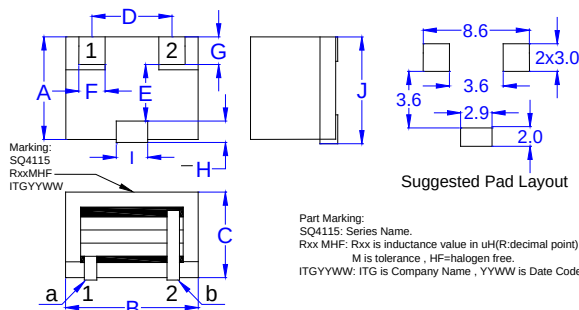


2. Electrical Characteristics of SQ4115 Series:

ITG Part Number	OCL ¹ (uH) ±20%	DCR ³ (mΩ) Typical	DCR ³ (mΩ) Max	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
SQ4115-R62MHF	0.62	1.15	1.30	24.00	20.00	20.00
SQ4115-R72MHF	0.72	1.15	1.30	20.00	17.00	21.00
SQ4115-R82MHF	0.82	1.15	1.30	16.00	14.00	22.00
SQ4115-R90MHF	0.90	1.15	1.30	15.00	13.50	23.00
SQ4115-1R0MHF	1.00	1.15	1.30	13.00	11.00	24.00
SQ4115-1R2MHF	1.20	1.15	1.30	10.00	9.00	25.00
SQ4115-1R4MHF	1.40	2.90	3.20	13.00	11.00	11.00

3. Mechanical Dimension of SQ4115 Series:

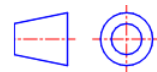
A	B	C	D	E	F	G	H	I	J
Max.	Max.	Max.	Nom.	Nom.	Ref.	Nom.	Nom.	Nom.	Max.
8.10	10.30	4.00	6.00	4.20	1.80	2.30	1.30	2.40	8.20



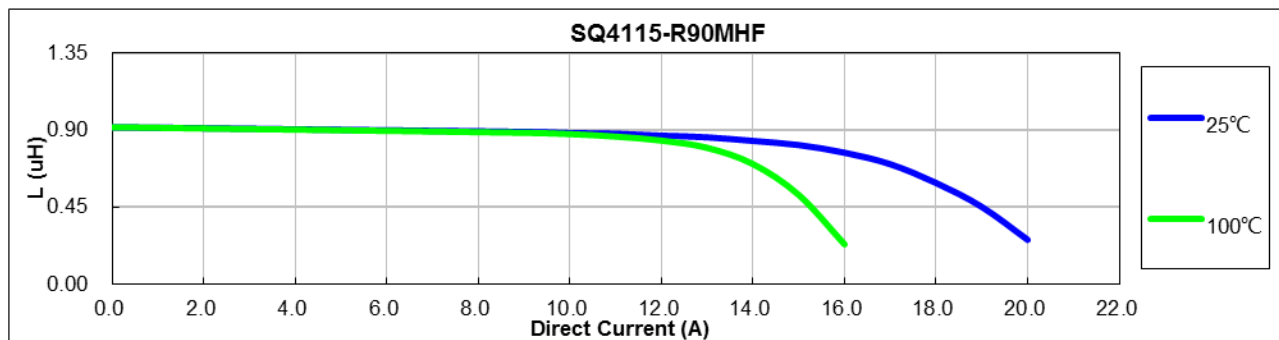
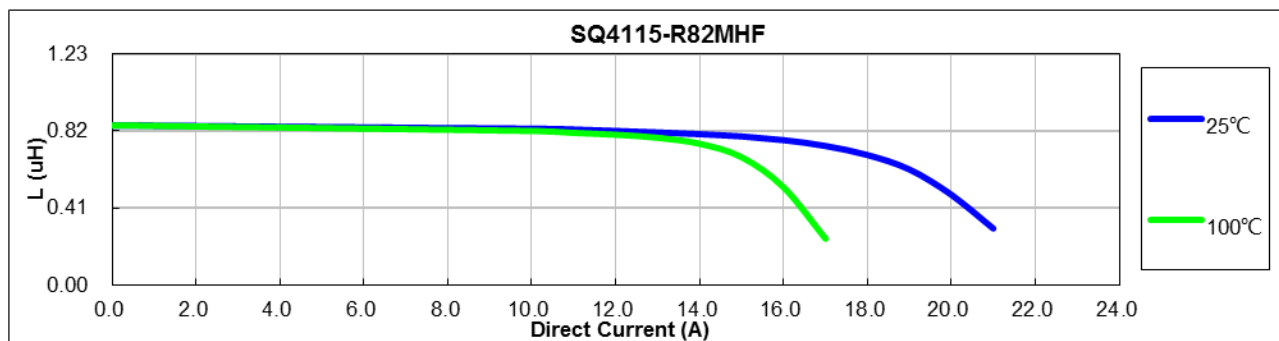
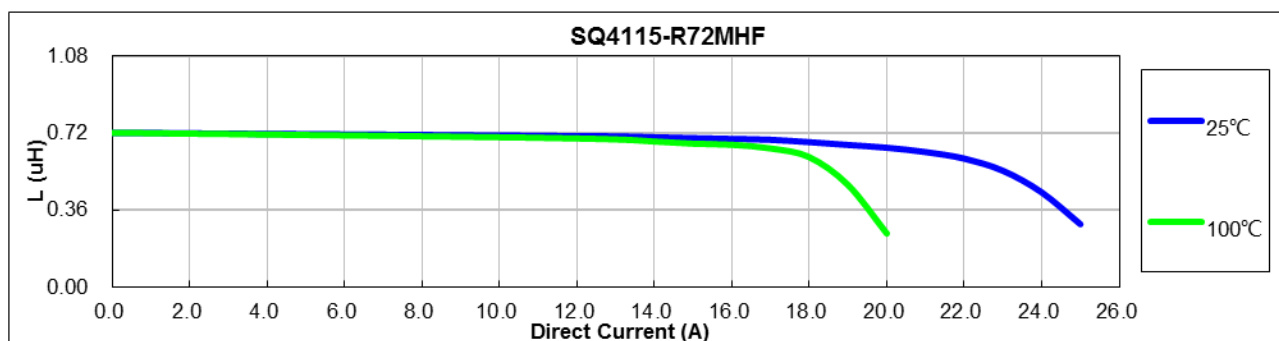
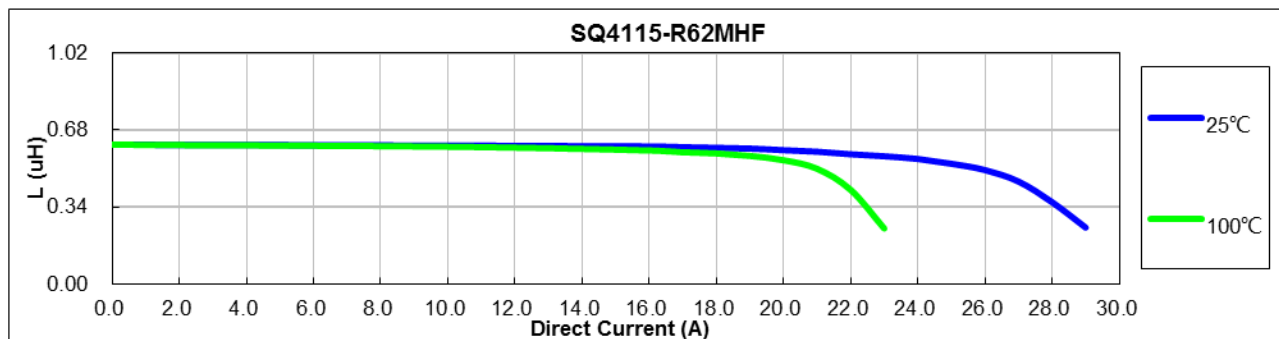
Notes:

1. Open Circuit Inductance (OCL) test condition: 100KHz, 0.1Vrms, 0A_{dc} at 25°C.
2. L @ Isat and L @ Irms Test condition: 100KHz, 0.1Vrms (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.
6. It is recommended the part temperature not exceed 130° C under worst case operating conditions as verified in the end application.

First Angle Projection:



4. Inductance Characteristics of SQ4115 Series (Inductance vs Current):



4. Inductance Characteristics of SQ4115 Series (Inductance vs Current):

