



SQE43XX Series



1. Features of SQE43XX Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 0.36 uH to 1.00 uH. Custom values are welcomed.
- High current output chokes, up to 40.0 Amp with approx. 20% roll off.
- Low Profile 6.50/5.50 mm height typical.
- Foot Print 11.00 x 11.00 mm max.
- Ideal for buck converter, VRM & High density board design.
- Operating frequency up to 1.0 MHz.
- Operating Temperature Range -40°C to + 130°C. RoHS & HF compliant.
- T & R Qty: 500 pcs , 13" Reel.



2. Electrical Characteristics of SQE43XX Series:

Part Number	OCL (uH) ±20%	DCR (mΩ) Typ. @25°C	DCR (mΩ) Max. @25°C	Isat1 ³ (A) @25°C	Isat2 ³ (A) @125°C	Irms ⁴ (A) @25°C	Dim. D (mm) Max.	Dim. K (mm) Max.	Fig
SQE4326DT-R36MHF	0.36	0.90	1.00	40.00	30.00	32.00	6.50	4.90	1
SQE4321AT-R68MHF	0.68	5.05	5.60	32.00	25.00	13.00	5.50	3.90	1
SQE4321A-R68MHF	0.68	5.05	5.60	32.00	25.00	13.00	5.50	3.90	2
SQE4321BT-R68MHF	0.68	3.95	4.40	28.00	21.00	15.00	5.50	3.90	1
SQE4321B-R68MHF	0.68	3.95	4.40	27.00	21.00	15.00	5.50	3.90	2
SQE4321CT-R68MHF	0.68	2.70	3.00	29.00	22.00	18.00	5.50	3.90	1
SQE4326AT-R68MHF	0.68	2.75	3.00	37.00	28.00	19.00	6.50	4.90	1
SQE4326BT-R68MHF	0.68	2.10	2.30	31.00	23.00	22.00	6.50	4.90	1
SQE4326AT-1R0MHF	1.00	2.75	3.00	21.00	12.00	19.00	6.50	4.90	1
SQE4326A-1R0MHF	1.00	2.75	3.00	21.00	12.00	19.00	6.50	4.90	2

3. Mechanical Dimension of SQE43XX Series:

Fig	A Max.	B Max.	C Min.	D Max.	E ± 0.5	F Nom.	G Nom.	H Nom.	I Nom.	J ± 0.3	K Max.
1	11.00	11.00	1.60	See table above	6.30	1.55	0.45	0.80	1.50	8.75	See table above
2	11.00	11.00	1.60	See table above	6.30	1.55	0.45	1.60	0.80	7.90	See table above

Fig. 1

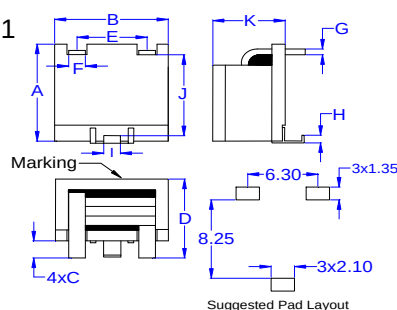
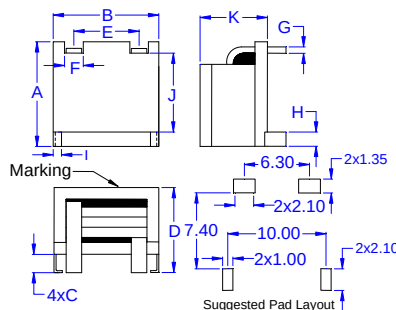
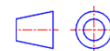


Fig. 2



First Angle Projection:



Notes:

1. Open Circuit Inductance (OCL) test condition: 100KHz, 0.1Vrms, 0A DC at 25°C.
2. The nominal DCR is measured from point "a" to point "b" as shown above in the mechanical drawing (Ta=25°C).
3. Isat1 & Isat2: DC current that will cause inductance to drop approximately by 20%.
4. Irms: DC current for an approximate temperature rise of 40°C without core loss. Derating is necessary for AC currents. Verify and check PCB pad layout, trace thickness, width, air-flow and proximity of other heat generating components as it will have an effect on the temperature rise.
5. It is recommended that the part temperature should not exceed 130°C under worst operating conditions.

● New York 1 914 347 2474 ● Taipei 886 2 2698 8669 ● Kaohsiung 886 7 350 2275
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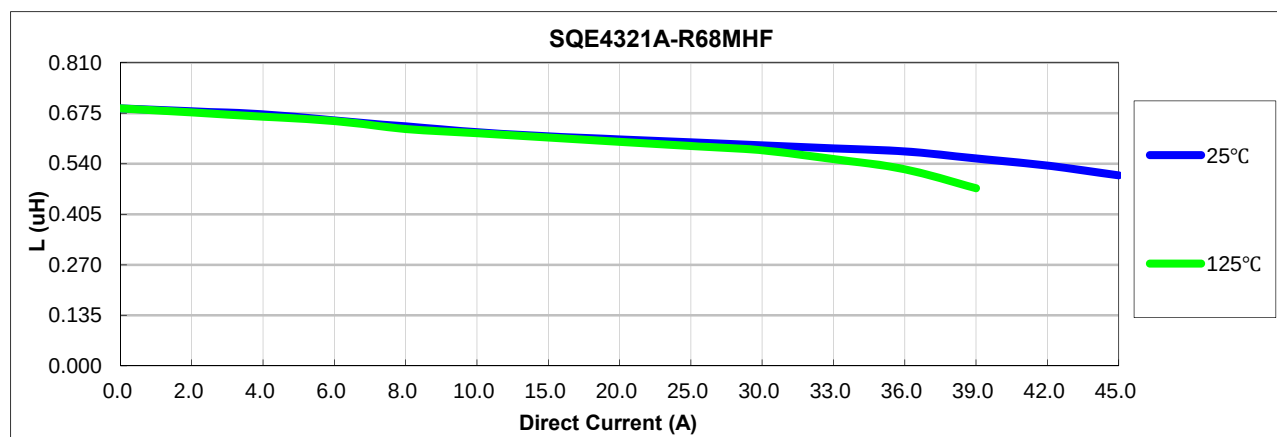
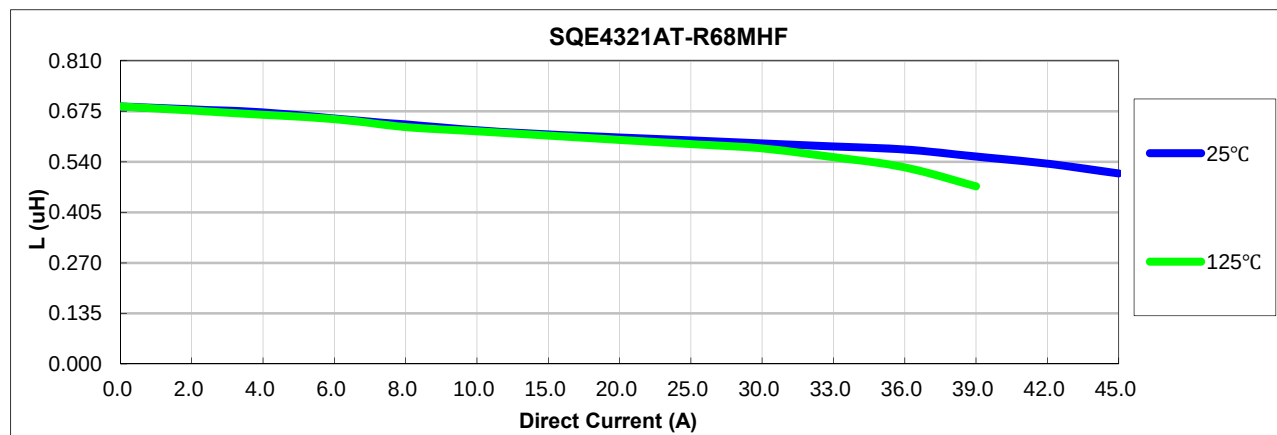
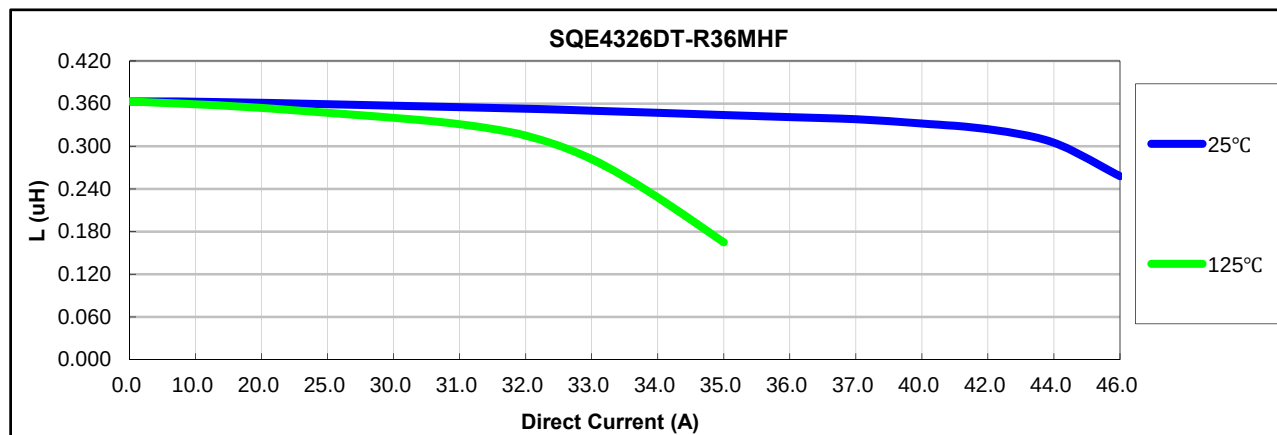
**Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.*



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4. Inductance Characteristics of SQE43XX Series (Inductance vs Current):



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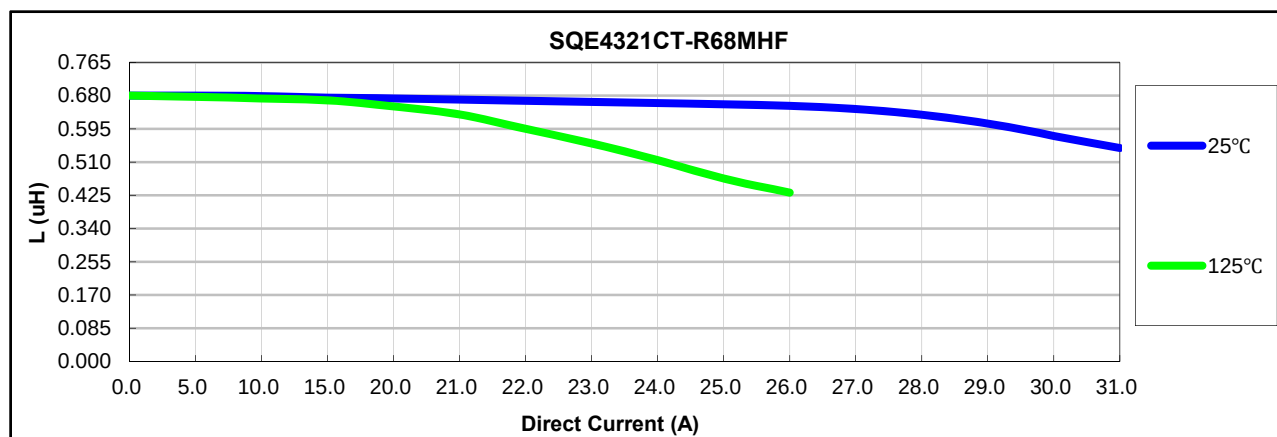
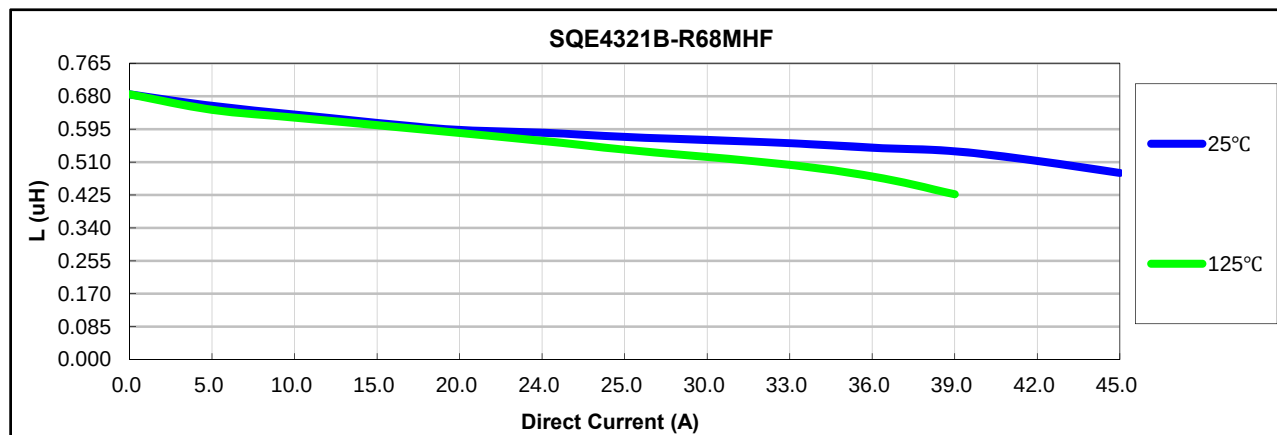
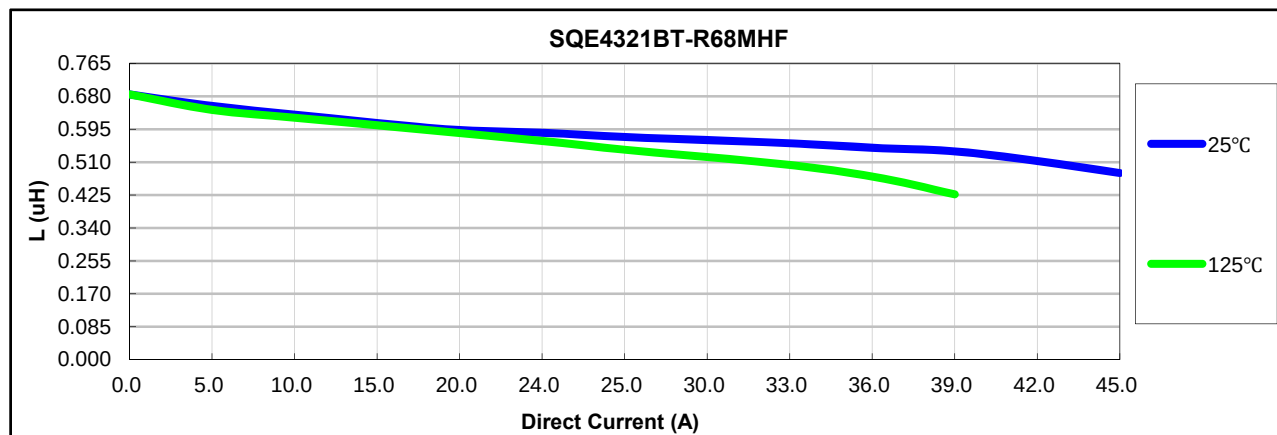
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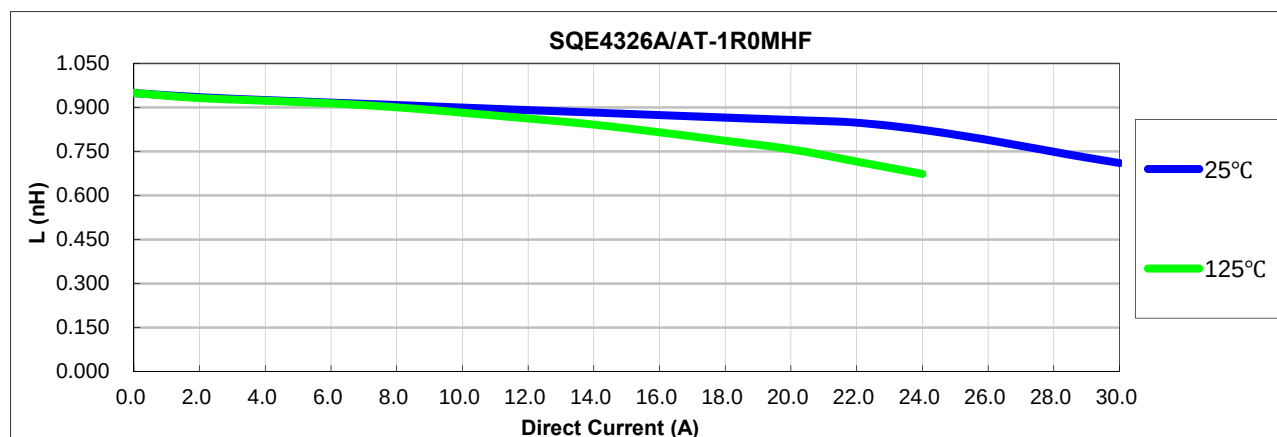
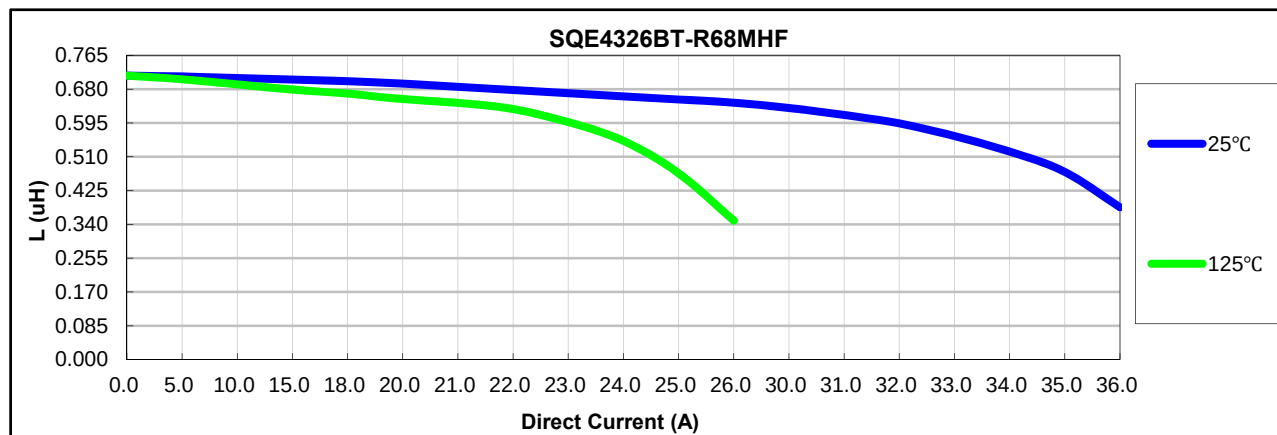
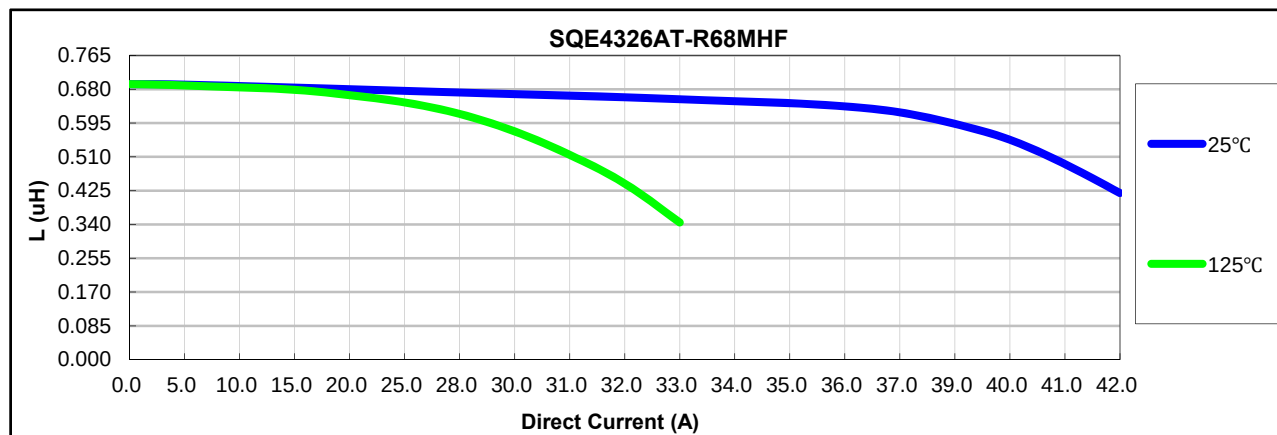
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