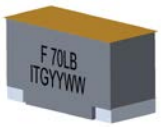
SLA41245B-R1 Series

1. Features of SLA41245B-R1 Series:



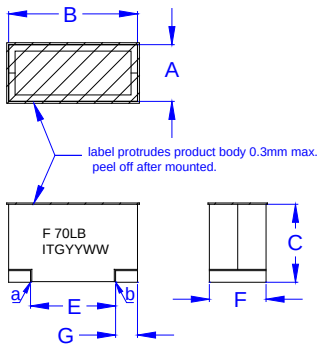
- Immersion cooling ready power beads.
- Inductance Range: 35.0nH to 120.0nH, Custom values are welcomed.
- High current output chokes, up to 180.0 Amp with approx. 20% roll off.
- Low Profile 6.00 mm Max. height .
- Foot Print 10.20 x 4.60 mm .
- Perfect for high density designs with limited board space.
- Operating frequency up to 5.0 MHz application.
- Operating Temperature Range -55° C to + 130° C , RoHs & HF compliance .
- T & R Qtys: 800 pcs , 13" Reel .

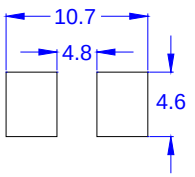
2. Electrical Characteristic of SLA41245B-R1 Series:

ITG Part Number	OCL [1] (nH) ±15%	L @ Isat1 [2] (nH) Min.	DCR [3] (mΩ) ±10%	Isat1 [4] (A) @25℃	Isat2 [4] (A) @75℃	Isat3 [4] (A) @100℃	Irms [5] (A) @25℃
SLA41245B-35L-R1	35.00	25.00	0.20	180.00	160.00	150.00	70.00
SLA41245B-50L-R1	50.00	36.00	0.20	120.00	113.00	105.00	70.00
SLA41245B-60L-R1	60.00	43.00	0.20	100.00	95.00	85.00	70.00
SLA41245B-70L-R1	70.00	50.00	0.20	93.00	80.00	76.00	70.00
SLA41245B-85L-R1	85.00	61.00	0.20	70.00	63.00	60.00	70.00
SLA41245B-100L-R1	100.00	72.00	0.20	57.00	53.00	50.00	70.00
SLA41245B-120L-R1	120.00	86.00	0.20	54.00	50.00	48.00	70.00

3. Mechanical Dimension(Unit : mm):

A Max.	B Max.	C Max.	E Nom.	F ±0.20	G ±0.25
4.60	10.20	6.00	5.20	4.10	2.50





Suggested Pad Layout

Third Angle Projection:

Notes:

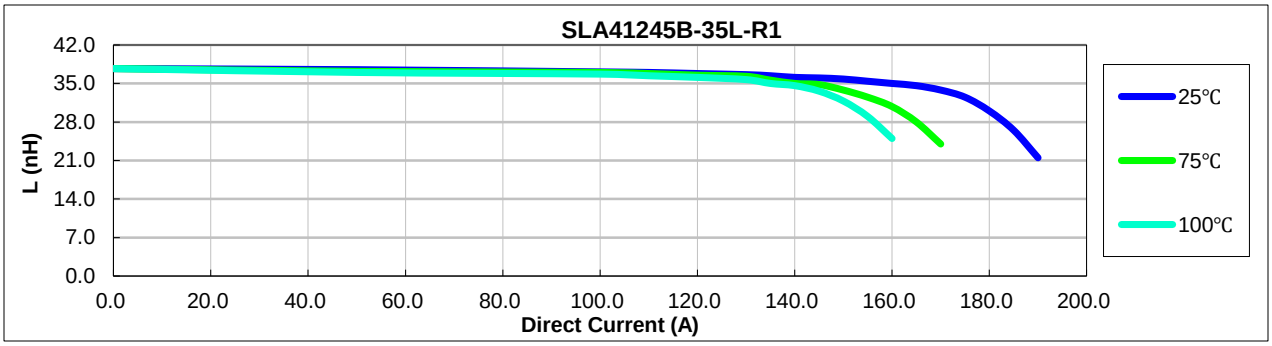
1. Open Circuit Inductance (OCL) test condition:500KHz,0.25Vrms,0Adc ,at 25 ℃.
2. L @ Isat and L @ Irms Test condition:500KHz,0.25Vrms (Ta=25 ℃).
3. The nominal DCR is measured from point "a" to point "b", as shown above on the mechanical drawing (Ta=25℃).
4. Isat1,Isat2 & Isat3 : DC current that will cause inductance to drop approximately by 20%.
5. 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 130 ℃ under worst case operating conditions verified in the end application.
6. Please contact ITG Sales or FAE to discuss your immersion cooling solvent and manufacturing process, ITG engineers will verify each customer's immersion cooling PCBA process.

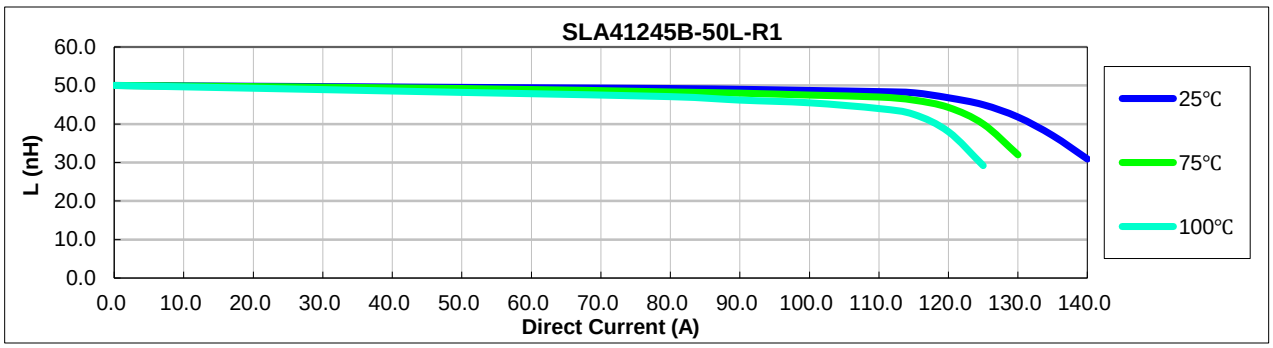
● **New York** *1 914 347 2474* ● **Taipei** *886 2 2698 8669* ● **Kaohsiung** *886 7 350 2275*
● **Japan** *81 568 85 2830* ● **Shenzhen** *86 755 8418 6263* ● **Shanghai** *86 21 5424 5141* ● **Hong Kong** *852 9688 9767*
● **sales@ITG-Electronics.com** ● **www. ITG-Electronics.com** *Revision A.0: September 21, 2023*

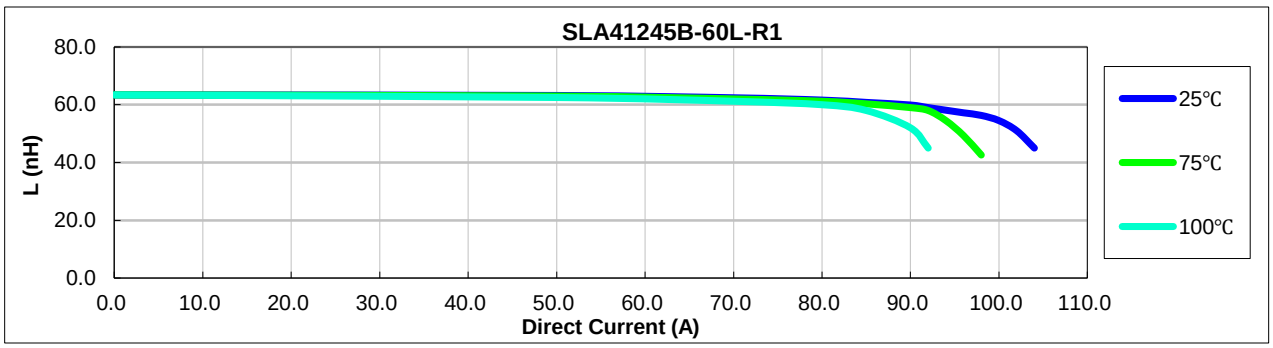
Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.

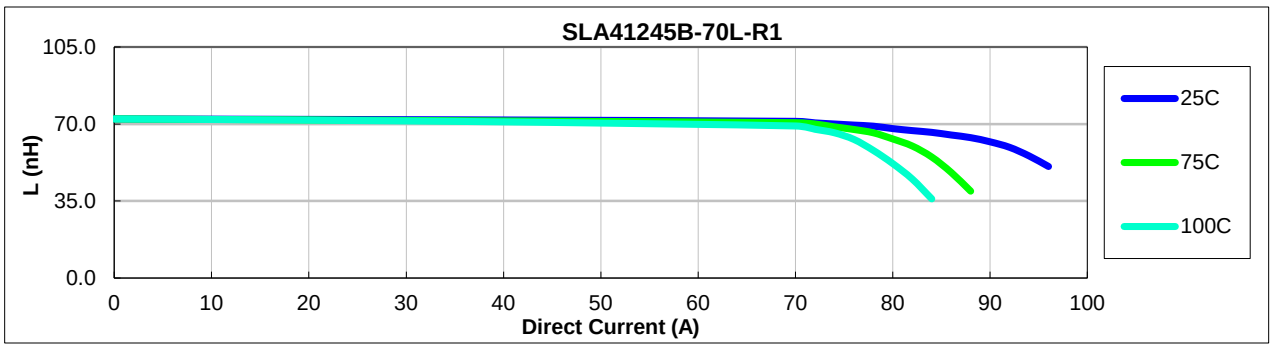
SLA41245B-R1 Series

4. Inductance Characteristics (Inductance vs. Current):







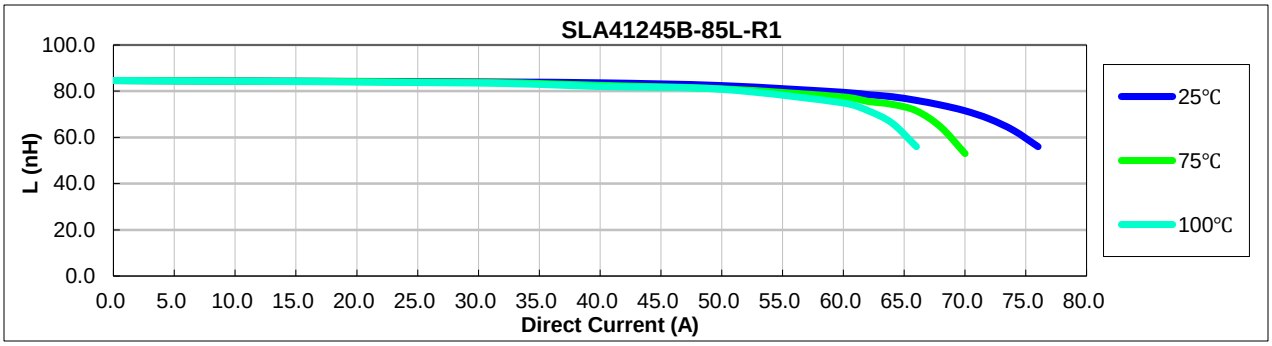


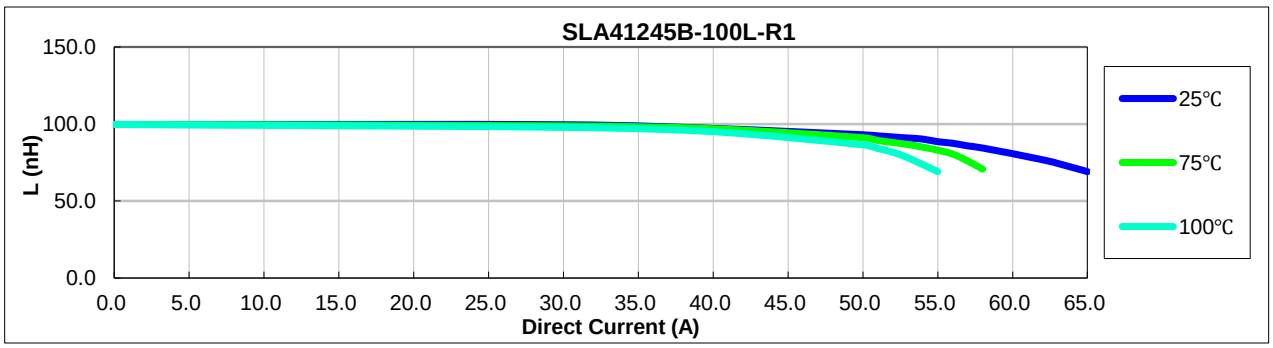
● **New York** *1 914 347 2474* ● **Taipei** *886 2 2698 8669* ● **Kaohsiung** *886 7 350 2275*
● **Japan** *81 568 85 2830* ● **Shenzhen** *86 755 8418 6263* ● **Shanghai** *86 21 5424 5141* ● **Hong Kong** *852 9688 9767*
● **sales@ITG-Electronics.com** ● **www. ITG-Electronics.com** *Revision A.0: September 21, 2023*

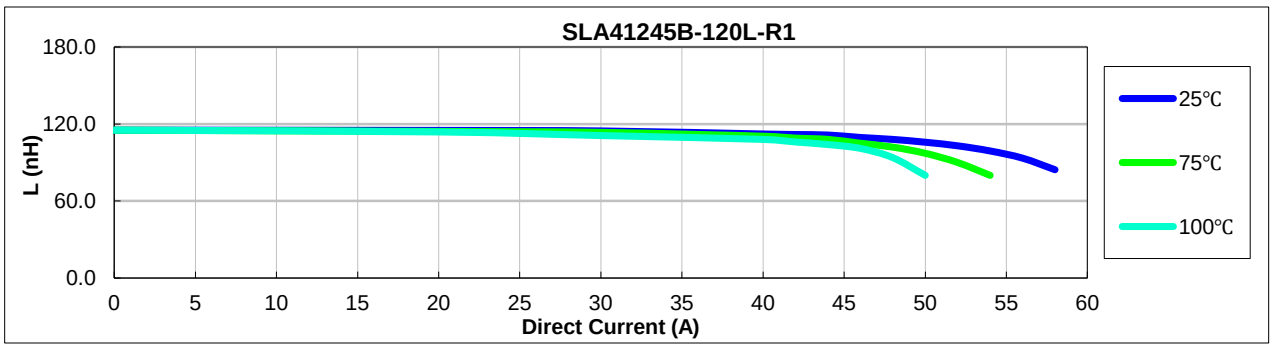
**Due to continuous product improvement, all specifications are subject to change without prior notice. Kindly contact an ITG field application engineer or a sales representative prior to purchase.*

SLA41245B-R1 Series

4. Inductance Characteristics (Inductance vs. Current):







**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.*