

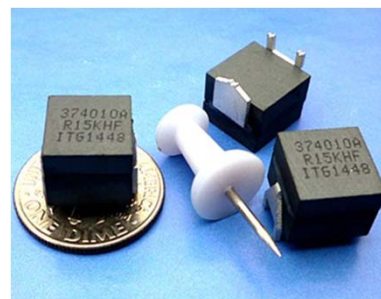


SLD374010 Series



1. Features of SLD374010 Series:

- Ferrite based SMD Inductor with lower core loss.
- Custom values are welcomed.
- High current output chokes of up to 86.0 Amp with approx. 20% roll off.
- Low profile 10.20mm maximum height with 11.1x6.5mm footprint.
- Ideal for Buck converter, VRM an High density board design.
- Operating frequency up to 1 MHz application.
- Operating temperature range -55°C to +130°C
- RoHS & HF compliant.



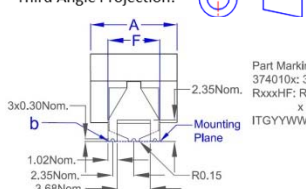
2. Electrical Characteristics of SLD374010 Series:

Part Number	OCL ¹ (nH) ±10%	L@Isat ^{1,2} (nH) Min.	DCR ³ (mΩ) ±5.0%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Isat4 ⁴ (A) @125°C	Irms ⁵ (A) @25°C
SLD374010A-R15KHF	150.0	108.00	0.290	86.00	79.00	74.00	70.00	60.00

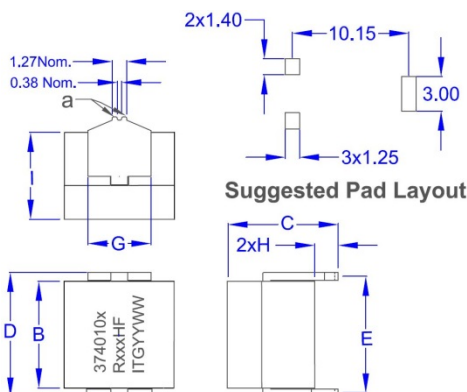
3. Mechanical Dimensions of SLD374010 Series (unit:mm):

A	B	C	D	E	F	G	H	I
Max.	Max.	Max.	Max.	±0.30	Nom.	Nom.	Min.	Max.
9.80	9.50	10.20	11.10	10.15	5.70	5.50	1.80	8.00

Third Angle Projection:



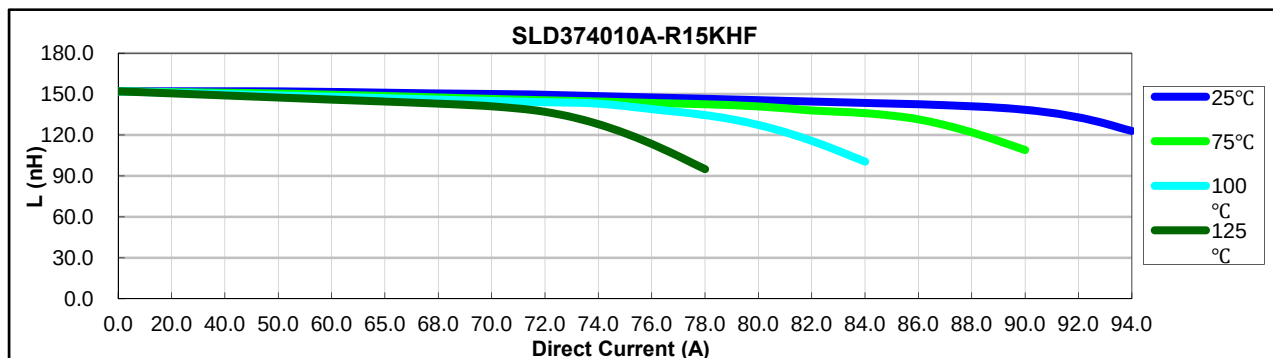
Part Marking:
374010x: 374010 is part size, x:special code
RxxHF: Rxx is inductance value in uH(R:decimal point)
x = tolerance, HF=halogen free
ITGYYWW: ITG logo and YYWW is date code



Notes:

1. Open Circuit Inductance (OCL) test condition: 100KHz, 0.1Vrms, 0Adc 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, Isat3 & Isat4 : 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 needed for AC currents.
6. Verify and check PCB pad thickness, width, air-flow and proximity of other heat generating components as it will have an effect on the temperature rise.
7. It is recommended that the part temperature not exceed 130°C under worst operating conditions.

4. Inductance Characteristics of SLD374010 Series (unit:mm):



● New York 1 914 347 2474 ● Taipei 886 2 2698 8669 ● Kaohsiung 886 7 350 2275

● Tokyo 81 568 85 2830 ● Shenzhen 86 755 8418 6263 ● Shanghai 86 21 5424 5141 ● Hong Kong 852 9688 9767

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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.