

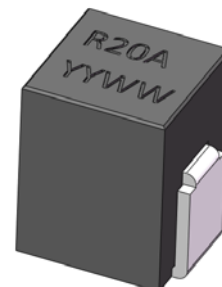


SL3032 Series



1. Features of SL3032 Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 70.0 nH to 200.0 nH , custom values are welcomed.
- High current output chokes, up to 70.0 Amp with approx. 20% roll off.
- Low Profile 8.00 mm max. height.
- Foot Print 7.20 x 6.20 mm max.
- Perfect for high density designs with limited board space.
- Operating frequency up to 1.0 MHz.
- Operating Temperature Range -55°C to + 130°C.
- RoHS & HF compliant.
- T & R Qtys: 650 pcs , 13" Reel.



2. Electrical Characteristics of SL3032 Series:

ITG Part Number	OCL ¹ (nH) 15% or 20%	DCR ³ (mΩ) ± 7%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @45°C	Isat3 ⁴ (A) @75°C	Isat4 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
SL3032*-R07LHF	70.0 , 15%	See * Notes	70.0	69.0	65.0	60.0	See * Notes
SL3032*-R08LHF	80.0 , 15%	See * Notes	67.0	66.0	62.0	50.0	See * Notes
SL3032*-R09LHF	90.0 , 15%	See * Notes	56.0	54.0	50.0	46.0	See * Notes
SL3032*-R10LHF	100.0 , 15%	See * Notes	45.0	41.0	39.0	36.0	See * Notes
SL3032*-R13LHF	130.0 , 15%	See * Notes	35.0	34.0	31.0	28.0	See * Notes
SL3032*-R15MHF	150.0 , 20%	See * Notes	30.0	28.0	25.0	24.0	See * Notes
SL3032*-R20MHF	200.0 , 20%	See * Notes	21.0	20.0	17.0	16.0	See * Notes

*Notes: **A:** DCR = 0.23, Irms = 35.0

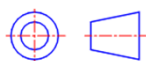
B: DCR = 0.20, Irms = 36.0

C: DCR = 0.18, Irms 39.0

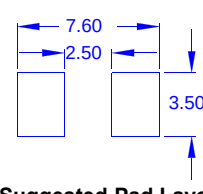
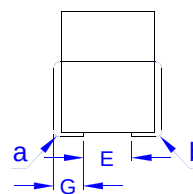
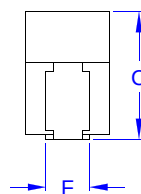
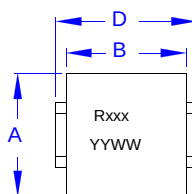
3. Mechanical Dimension of SL3032 Series (Unit:mm)

A	B	C	D	E	F	G
Max.	Max.	Max.	Max.	Nom.	±0.20	±0.35
6.20	6.20	8.00	7.20	3.10	3.00	1.85

Third Angle Projection:



Part Marking:
Rxx x: xx is inductance value in uH(R:decimal point),
x is special code.
YYWW: Date Code



Suggested Pad Layout

Notes:

1. Open Circuit Inductance (OCL) test condition: 100KHz, 0.10Vrms, 0A DC at 25°C.
2. L @ Isat and L @ Irms Test condition: 100KHz, 0.10Vrm (Ta=25°C).
3. The nominal DCR is measured from point "a" to point "b" as shown above in the mechanical drawing (Ta=25°C).
4. Isat1, Isat2, Isat3 and Isat 4: 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. 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.
6. 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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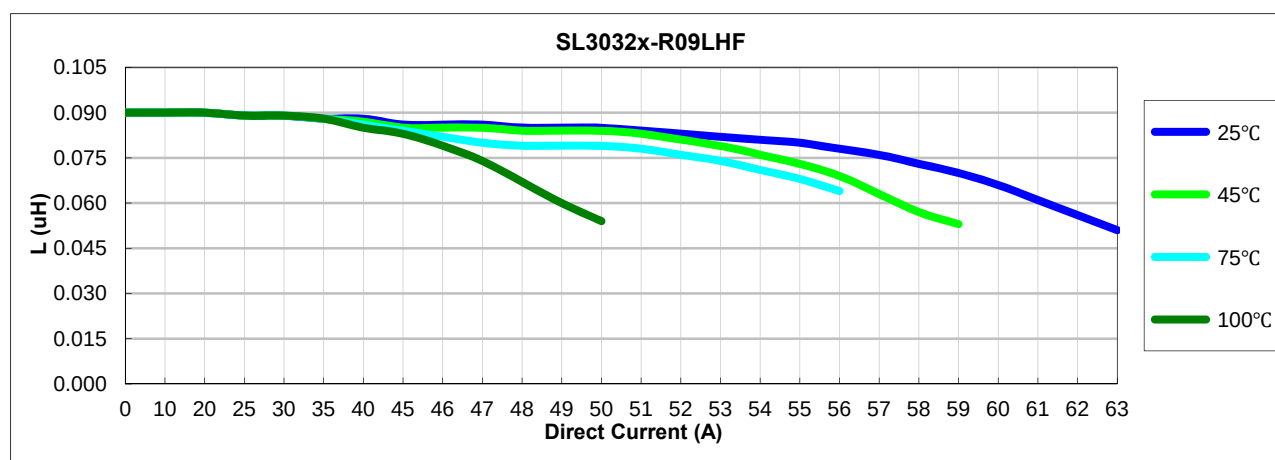
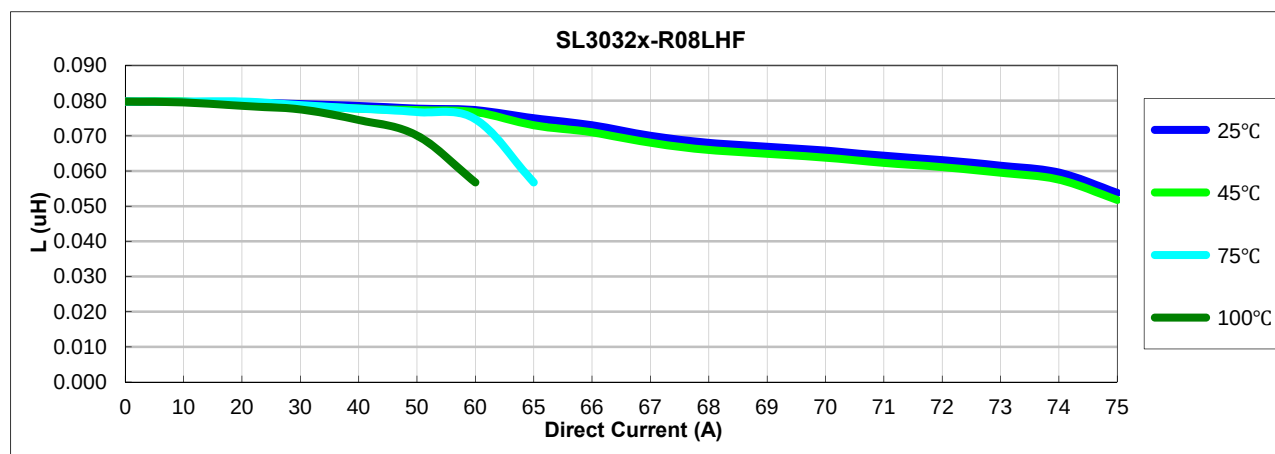
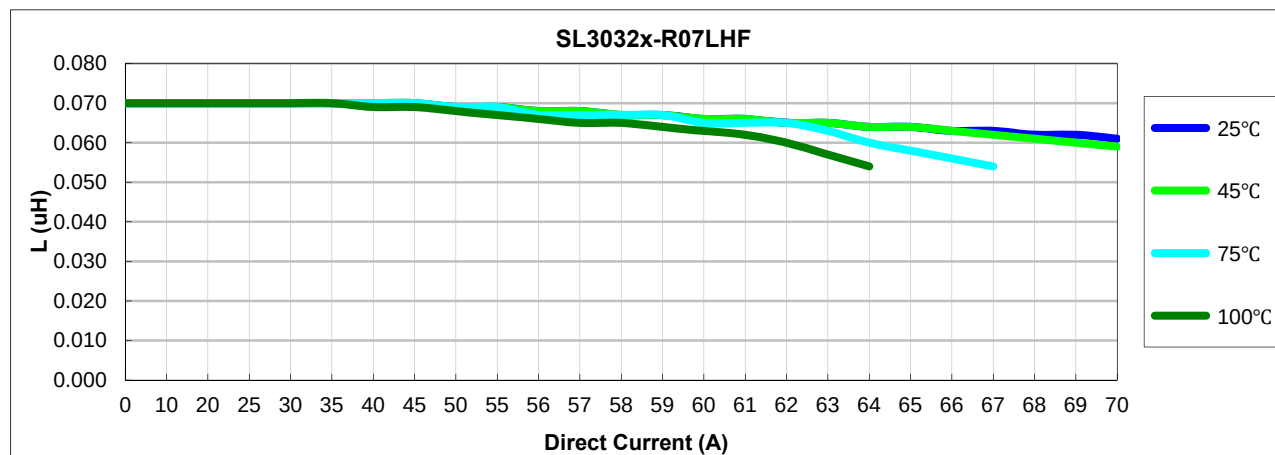
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SL3032 Series



4. Inductance Characteristics of SL3032 Series (Inductance vs Current):



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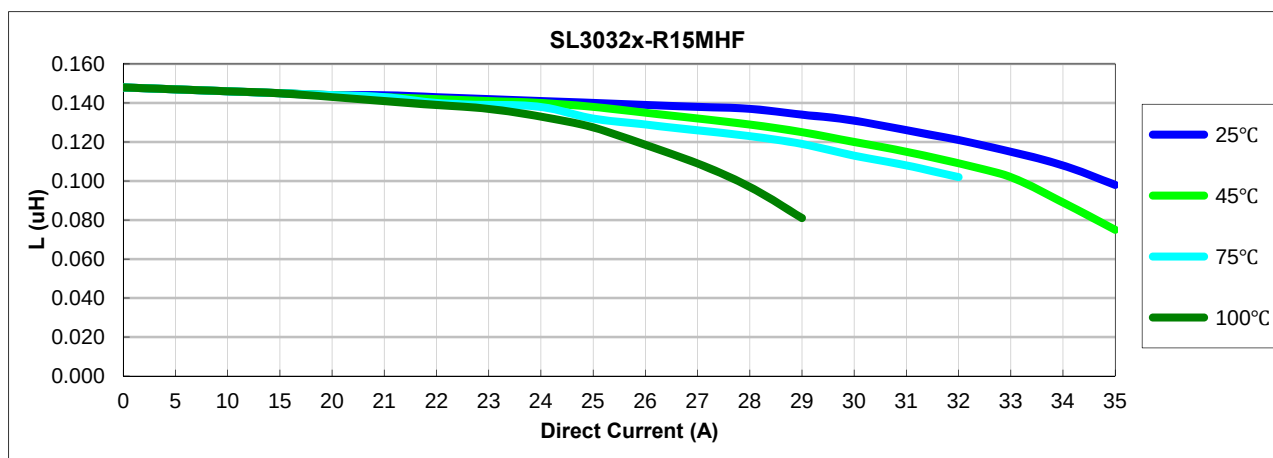
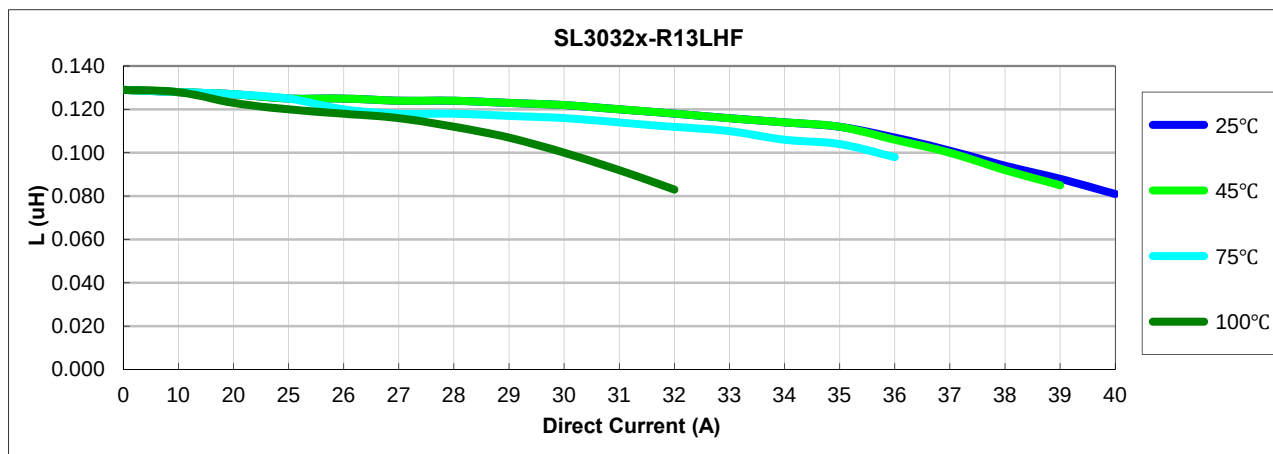
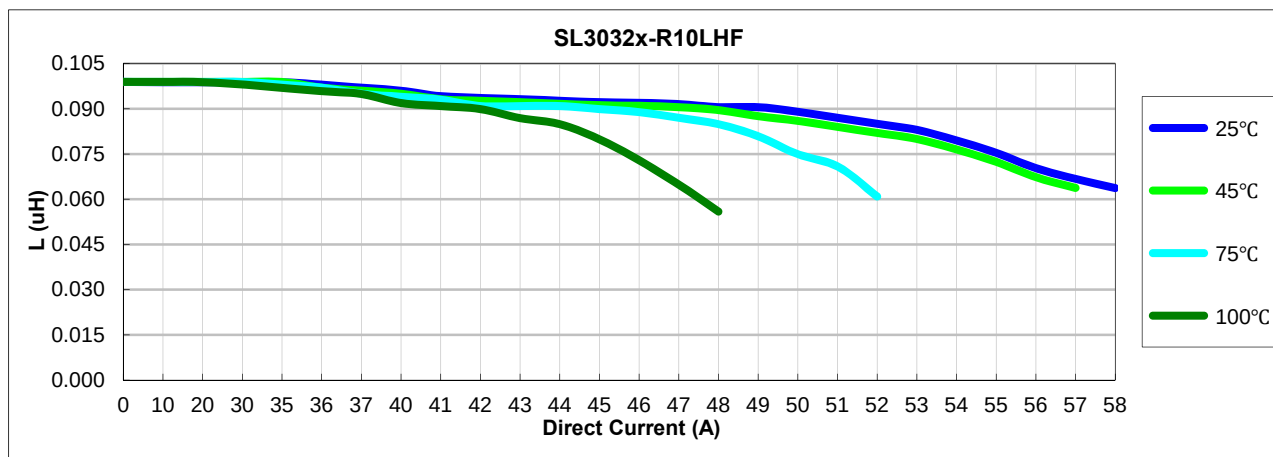
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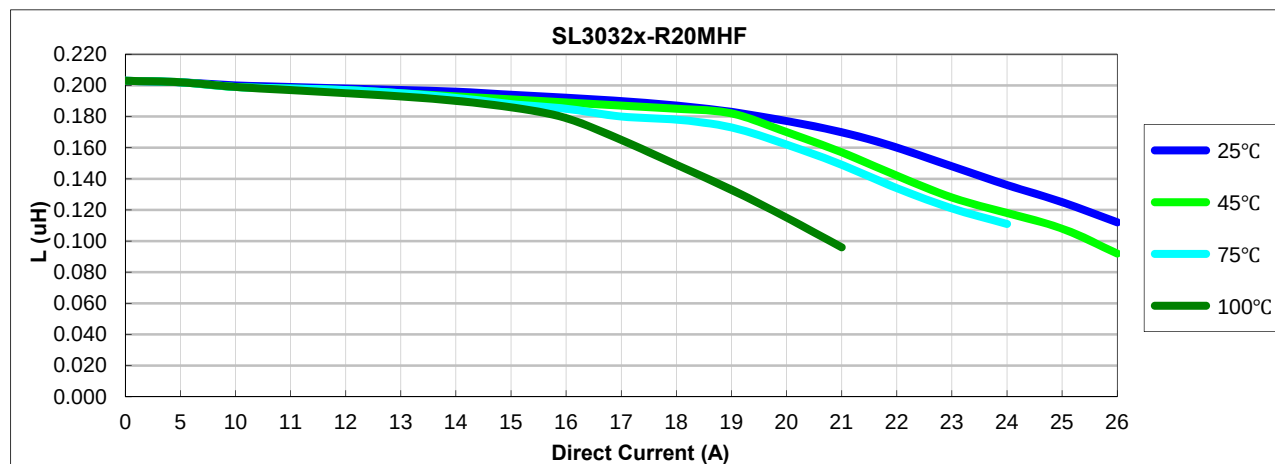
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