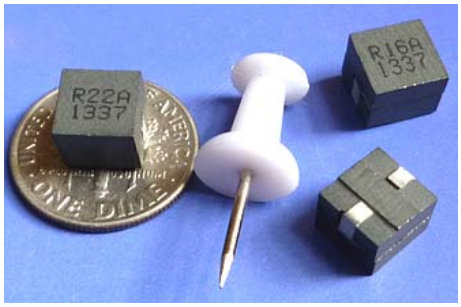
SL3028 Series

1. Features:



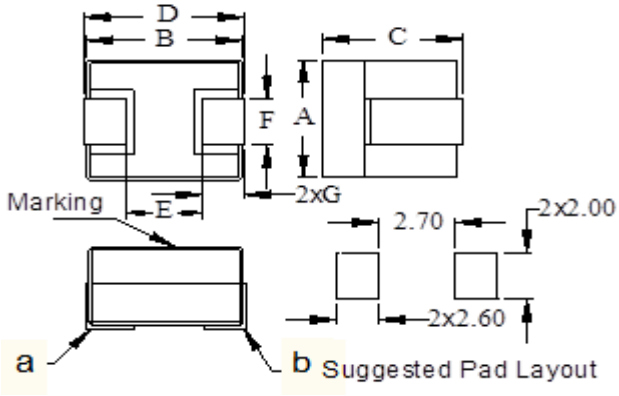
- Ferrite based SMD Inductor with lower core loss.
- Inductance Range:180nH to 220nH,Custom values are welcomed.
- High current output chokes, upto 43.0 Amp with approx. 20% roll off.
- Low Profile 7.00mm Max. height .
- 7.60 x 7.40 mm Foot Print.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency up to 1 MHz application.
- Operating Temperature Range -55°C to + 130°C , RoHs & HF compliance .
- T & R Qtys: 750 pcs , 13" Reel ;

2. Electrical Characteristic of SL3028 Series:

Part Number	Inductance (nH) ±10%	DCR (mΩ) ± 6.0%	L@Isat[1] (nH) MIN.	Isat[1] (A) @25℃	Isat[2] (A) @75℃	Isat[3] (A) @100℃	Isat[4] (A) @125℃	Irms (A) @25℃
SL3028A-R18KHF	180.00	0.50	129.00	43.00	41.00	38.00	33.00	49.00
SL3028A-R20KHF	200.00	0.50	144.00	39.00	37.00	34.00	29.00	49.00
SL3028A-R22KHF	220.00	0.50	158.00	35.00	32.00	28.00	25.00	49.00

3. Mechanical Dimension(Unit:mm):

A Max.	B Max.	C Max.	D Max.	E Nom.	F ±0.20	G ±0.20
7.40	7.50	7.00	7.60	3.30	1.55	2.00



Note:

1>.Open Circuit Inducta

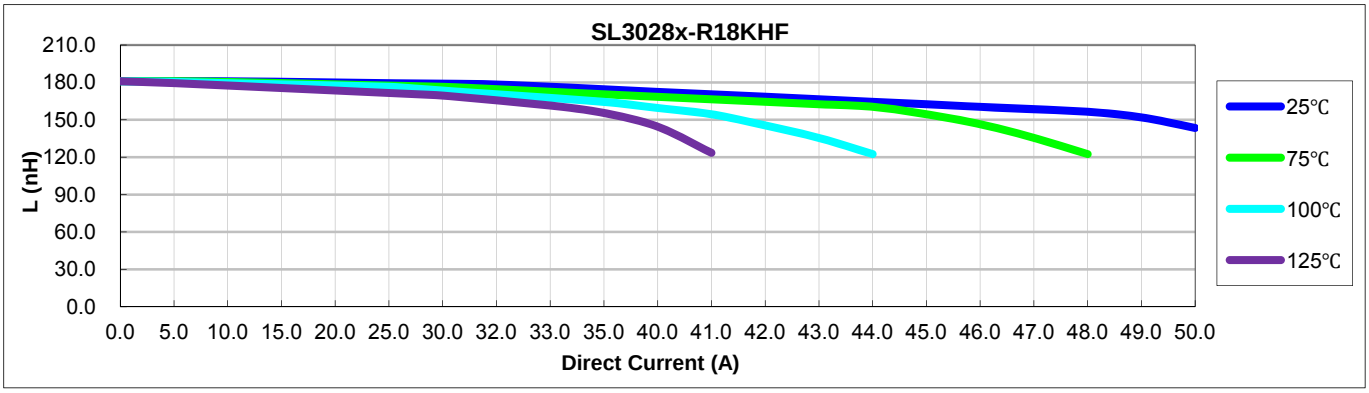
2>.Full Load Inductance (FLL) Test condition:100KHz,0.1Vrms ,Isat ;(Ta=25 ℃).

3>.Isat[1],Isat[2],Isat[3] & Isat[4] : DC current that will cause inductance to drops approximately by 20% ;

4>. 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°C under worst case operating conditions verified in the end application.

5>.The nominal DCR is measured from point "a" to point"b",as shown above on the mechanical drawing.

4. Inductance Characteristics (Inductance vs. Current):



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Inductance vs. Current