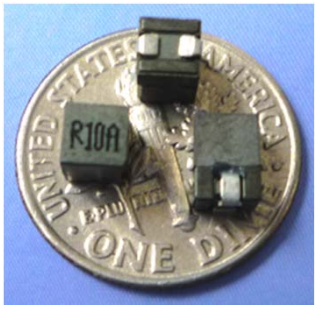
SL1624 Series

1. Features:



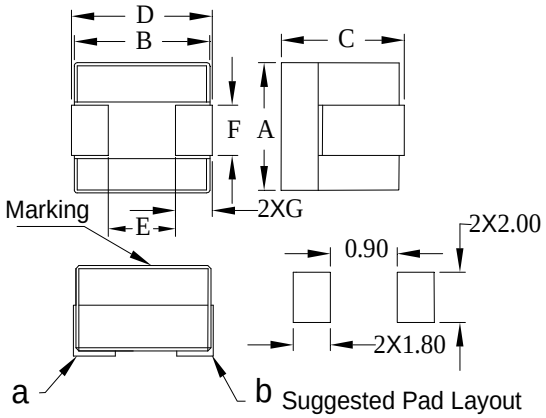
· Ferrite based SMD Inductor with lower core loss.
· Custom values are welcomed.
· High current output chokes, upto 16.5 Amp with approx. 20% roll off.
· Low Profile 6.00mm Max. height .
· Foot Print 4.20 x 4.00 mm Max.
· Ideal for Buck Converter, VRM & High Density Board Design.
· Operating frequency up to 1 MHz application.
· Operating Temperature Range -55°C to + 130°C , RoHs & HF compliance .

2. Electrical Characteristic of SL1624 Series:

Part Number	Inductance (nH) ±20%	DCR (mΩ) ± 9.0%	Isat[1] (A) @25℃	L@Isat[1] (nH) ⩾	Isat[2] (A) @25℃	Isat[3] (A) @75℃	Isat[4] (A) @100℃	Irms (A) @25℃
SL1624A-R10MHF	100.00	0.27	16.00	80%L0	16.50	12.00	10.00	42.00

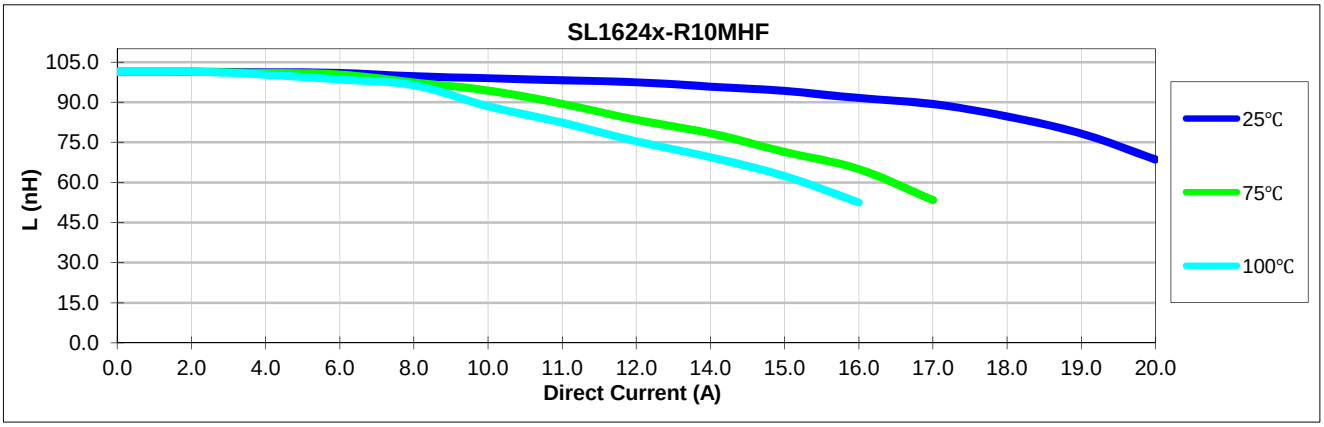
3. Mechanical Dimension(Unit:mm):

A Max.	B Max.	C Max.	D Max.	E Ref.	F Nom.	G Nom.
4.00	3.95	6.00	4.20	1.30	1.40	1.30



Note:
1>.Open Circuit Inductan
2>.Full Load Inductance (FLL) Test condition:100KHz,1.0Vrms ,Isat ;(Ta=25 ℃).
3>.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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