

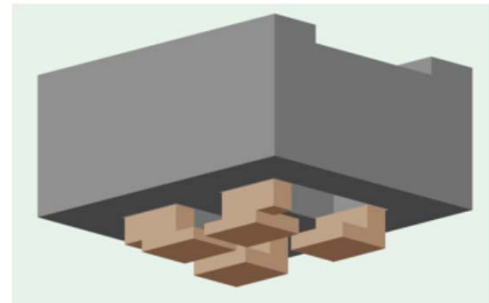


AHAE4732 Series



1. Features of AHAE4732 Series :

- Ferrite based SMD Inductor with lower core loss.
- Custom values are welcomed.
- High current output chokes, up to 48.0 Amp with approx. 20% roll off.
- Low profile 8.64 mm Max. height.
- 13.20 x 10.85 mm Foot Print.
- Ideal for Buck Converter, VRM & High Density Board Design.
- Operating frequency up to 1.0 MHz application.
- Operating Temperature Range -55°C to + 130°C. RoHs & HF compliant .
- T & R Qtys: 450 pcs , 13" Reel.

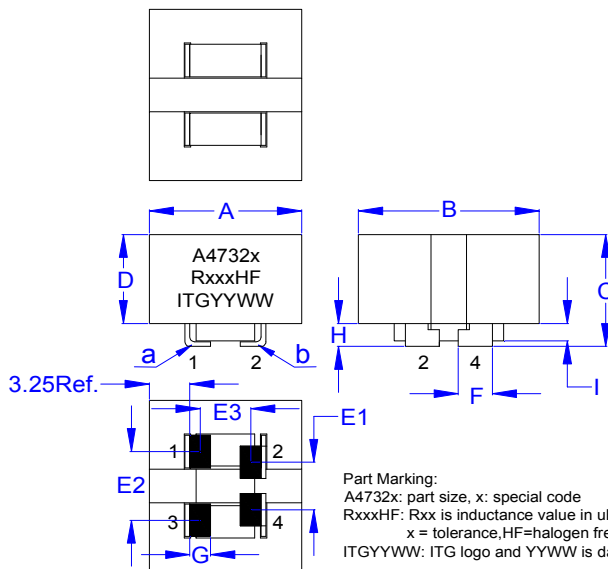


2. Electrical Characteristic of AHAE4732 Series :

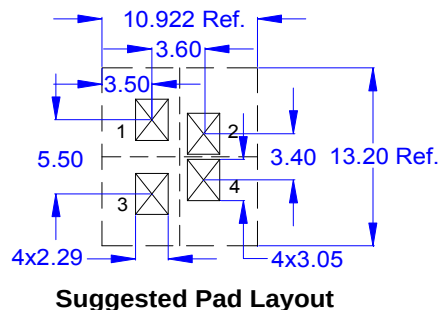
Part Number	OCL ¹ (nH) ± 10%	L@Isat1 ² (nH) Typ.	DCR ³ (mΩ) ± 7.0%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
AHAE4732A-R21KHF	210.0	147.00	0.44	48.00	46.00	44.00	31.00

3. Mechanical Dimension(Unit:mm):

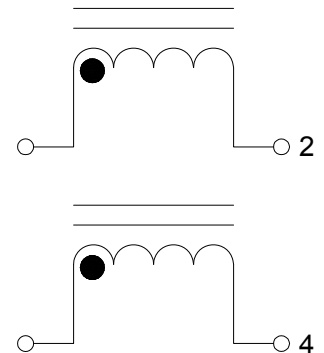
A	B	C	D	E1	E2	E3	F	G	H	I
(Max.)	(Max.)	(Max.)	(Max.)	(Nom.)	(Nom.)	(Nom.)	±0.20	(Nom.)	(Min.)	(Ref.)
10.85	13.20	8.64	6.73	3.40	5.50	3.60	2.40	1.50	1.65	1.30



Part Marking:
A4732x: part size, x: special code
RxxxHF: Rxx is inductance value in uH(R:decimal point),
x = tolerance, HF=halogen free
ITGYYWW: ITG logo and YYWW is date code



Third Angle Projection:



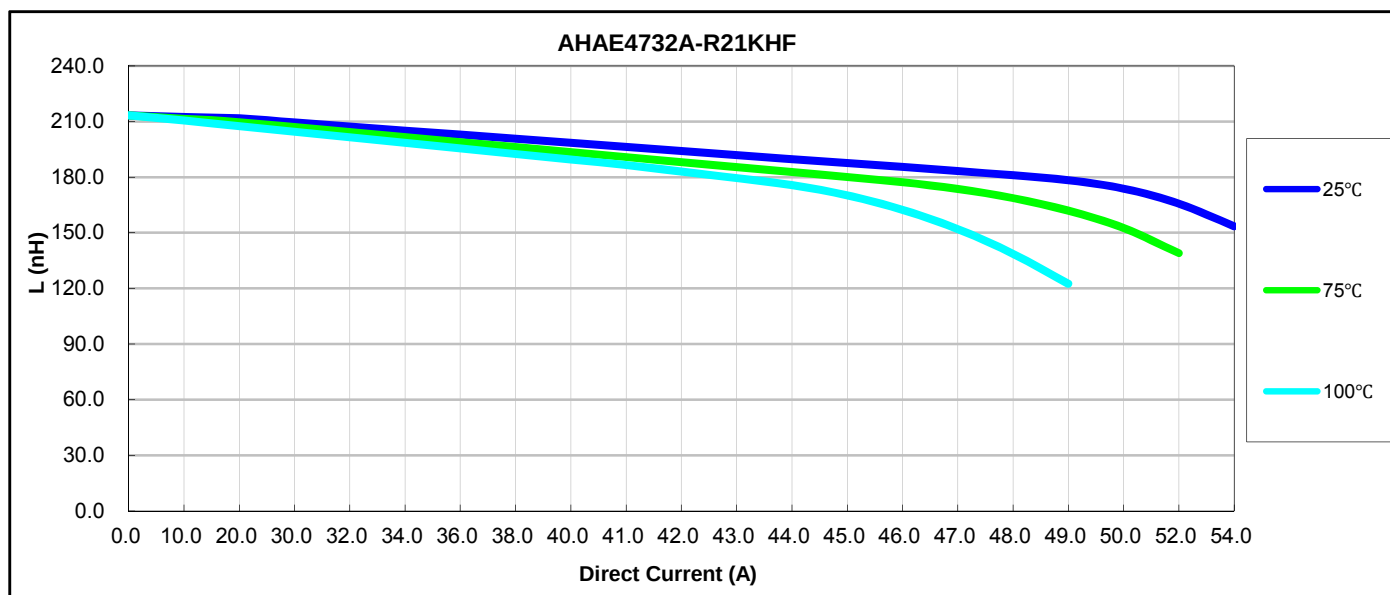
SCHEMATIC DIAGRAM



AHAE4732 Series



4. Inductance Characteristics (Inductance vs. Current):



Note:

- 1> Open Circuit Inductance (OCL) test condition: 100KHz, 0.1Vrms, 0A_{dc} 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: 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. 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 as verified in the end application.