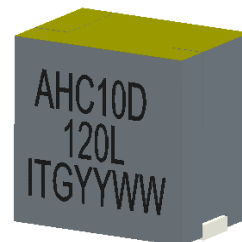


1. Features of AHC10D Series :

- Ferrite based SMD inductor with lower core loss.
- Inductance Range: 90.0nH to 330.0nH, Custom values are welcomed.
- High current output chokes, up to 125.0 Amp with approx. 20% roll off.
- Low Profile 10.0 mm Max. height .
- Foot Print 10.0 x 7.0 mm .
- Perfect for high density designs with limited board space.
- Operating frequency up to 5.0 MHz application.
- Operating Temperature Range -55° C to +130° C , RoHs & HF compliance .
- T & R Qty: 400 pcs , 13" Reel ;

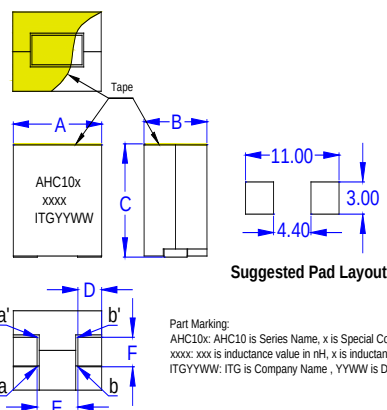


2. Electrical Characteristic of AHC10D Series:

ITG Part Number	OCL ¹ (nH) ± 10% or 15%	L @ Isat1 ² (nH) Min.	DCR ³ (mΩ) ± 10%	Isat1 ⁴ (A) @25°C	Isat2 ⁴ (A) @75°C	Isat3 ⁴ (A) @100°C	Irms ⁵ (A) @25°C
AHC10D-90K	90.00	63.00	0.185	125.00	118.00	115.00	62.000
AHC10D-100L	100.00	70.00	0.185	115.00	105.00	100.00	62.000
AHC10D-120L	120.00	84.00	0.185	95.00	88.00	82.00	62.00
AHC10D-150L	150.00	105.00	0.185	80.00	78.00	75.00	62.00
AHC10D-180L	180.00	126.00	0.185	70.00	64.00	60.00	62.00
AHC10D-220L	220.00	154.00	0.185	56.00	52.00	45.00	62.00
AHC10D-270L	270.00	189.00	0.185	46.00	42.00	40.00	62.00
AHC10D-330L	330.00	231.00	0.185	43.00	38.00	35.00	62.00

3. Mechanical Dimension(Unit : mm):

A	B	C	D	E	F
Max.	Max.	Max.	± 0.30	(Ref.)	± 0.20
10.00	7.00	10.00	2.70	4.60	2.40



Notes:

1. Open Circuit Inductance (OCL) test condition:500KHz,0.25Vrms,0Adc ,at 25°C.
2. L @ Isat and L @ Irms Test condition:500KHz,0.25Vrms (Ta=25°C).
3. The nominal DCR is measured from point "a" and "a" to point "b " and "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 verified in the end application.



4. Inductance Characteristics (Inductance vs. Current):

