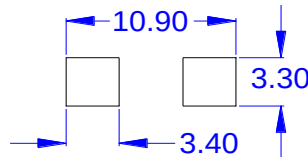
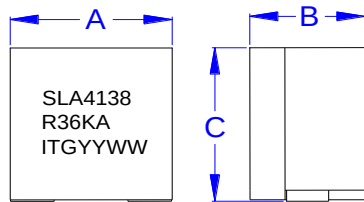
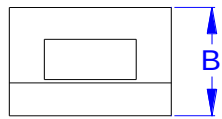
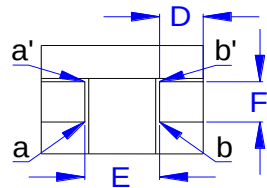


1. Configuration & Dimensions (in mm):



Suggested Pad Layout



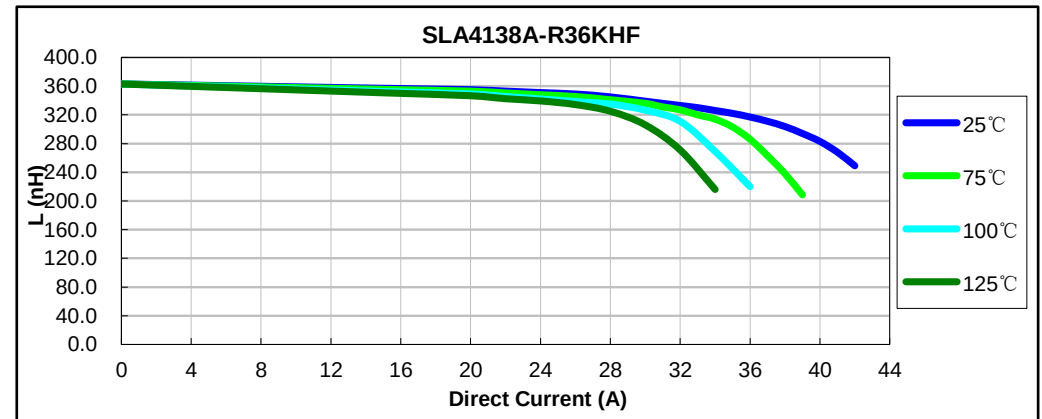
Part Marking:
SLA4138: part size.
R36KA: R36 is inductance value in uH(R=decimal point),
K is OCL tolerance, A is special code.
ITGYYWW: ITG logo and YYWW is date code.

A	10.70	(Max.)	mm
B	7.50	(Max.)	mm
C	9.50	(Max.)	mm
D	2.80	± 0.20	mm
E	4.60	(Nom.)	mm
F	2.80	± 0.20	mm

2. Electrical Characteristics:

- 1> Open Circuit Inductance (OCL): 360.0nH ± 10% at 100KHz, 1.0Vrms, 0Adc, at 25°C.
- 2> Saturation Point: Isat1=37.0ADC @ 25°C, Isat2=34.0ADC @ 75°C, Isat3=30.0ADC @ 100°C, Isat4=28.0ADC @ 125°C, this DC current that will cause inductance to drop approximately by 20%.
- 3> L @ Isat: 259.0nH Min.(302nH typical) at Isat1.
- 4> DCR: 0.22 ± 7% mΩ measured from point "a" and "a'" to point "b" and "b'", as shown above on the mechanical drawing (Ta=25°C).
- 5> Irms: 45.0A, DC current that causes an approximate temperature rise (ΔT) of 40°C. 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.

3. Inductance Characteristics (Inductance vs. Current):



Notes:

- 1> T & R Qtys: 400 pcs, 13" Reel.
- 2> Operating Temperature Range -55°C to + 130°C
- 3> Rohs and HF Compliance Component
- 4> Operating frequency up to 1.0 MHz.

REVISION HISTORY

REV	DATE	DESCRIPTION	APPROVED
A	2015/9/15	NEW	DavidWong
B			
C			
D			
E			
F			

UNLESS OTHERWISE SPECIFIED

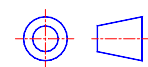
DIMENSIONS ARE IN mm.

TOLERANCES

2PL ± 0.30

3PL ± 0.15

Third Angle Projection



Inter-Technical Group

SLA4138A-R36KHF

Power Bead, 360.0nH, 37.0A, 0.22mΩ DCR

DWG. NO.

SLA4138A-R36KHF

SCALE: 1/1

SHEET

REV.
A

1 OF 1

