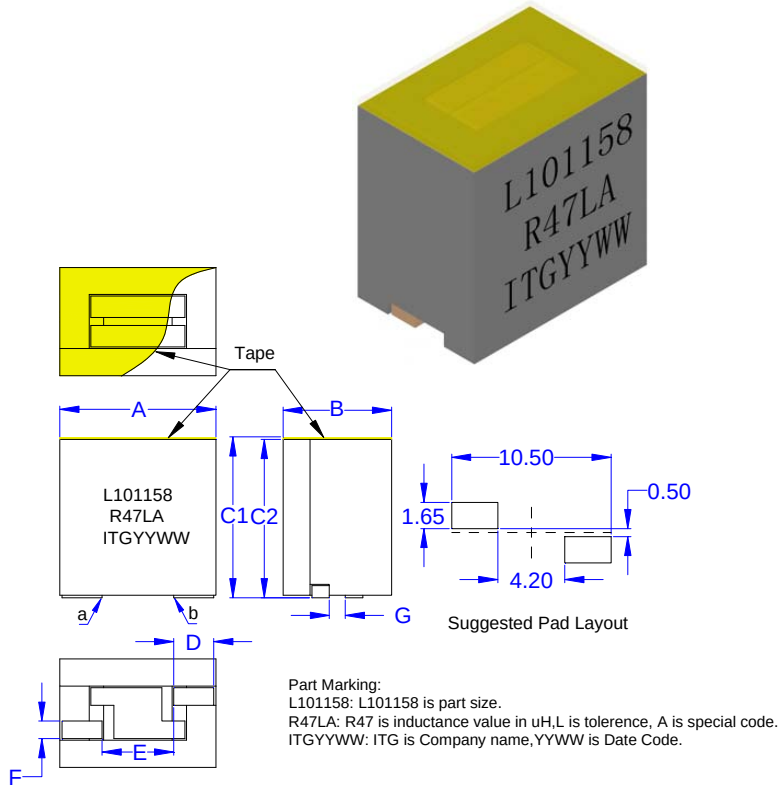


1. Configuration & Dimensions (in mm):

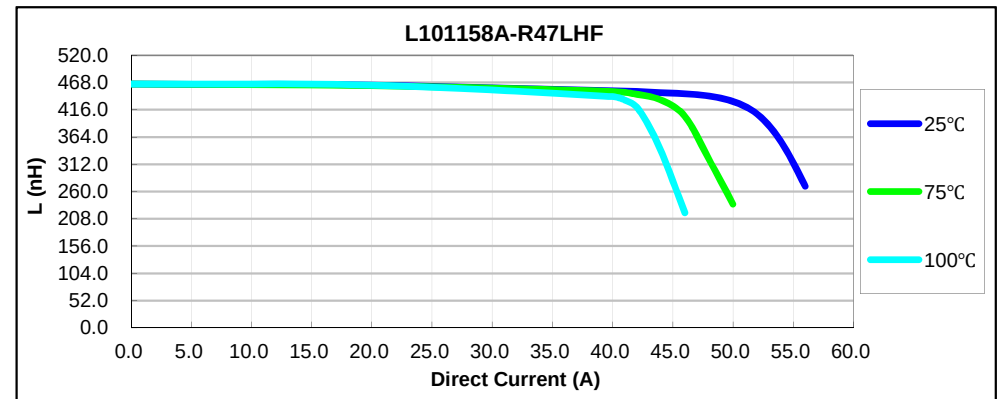


A	10.00	(Max.)	mm
B	7.00	(Max.)	mm
C1	10.20	(Max.)	mm
C2	10.00	(Max.)	mm
D	2.50	± 0.35	mm
E	4.50	(Nom.)	mm
F	1.10	± 0.20	mm
G	1.00	± 0.30	mm

2. Electrical Characteristics (Ta=25°C) :

- 1> Open Circuit Inductance (OCL): 470nH ± 15% at 100KHz, 0.1Vrms, 0Adc.
- 2> Saturation Point: Isat1=48.0Adc @ 25°C, Isat2=40.0Adc @ 75°C, Isat3=38.0Adc @ 100°C, this DC current that will cause inductance to drop approximately by 20%.
- 3> L @ Isat: 330.0nH Min. at Isat1=48Adc.
- 4> Irms: 30.0A, 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.
- 5> DCR: $0.81 \pm 10\% m\Omega$ measured from point "a" to point "b", as shown on the left mechanical drawing (Ta=25°C).

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	12/11/2015	NEW	DavidWong
B	03/17/2016	Changed the length of pad layout 10.5mm(was 10.0mm)	DavidWong
C	03/23/2016	Increased the tape on the top of surface as the drawing	DavidWong
D	07/14/2016	Changed the color of tape from Black to Amber	DavidWong
E			
F			

UNLESS OTHERWISE SPECIFIED

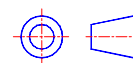
DIMENSIONS ARE IN mm.

TOLERANCES

2PL ± 0.30

3PL ± 0.15

Third Angle Projection



Inter-Technical Group

L101158A-R47LHF

Power Bead, 470nH, 48.0A, 0.81mΩ DCR

DWG. NO.

L101158A-R47LHF

SCALE: 1/1

SHEET

REV.
D

1 OF 1