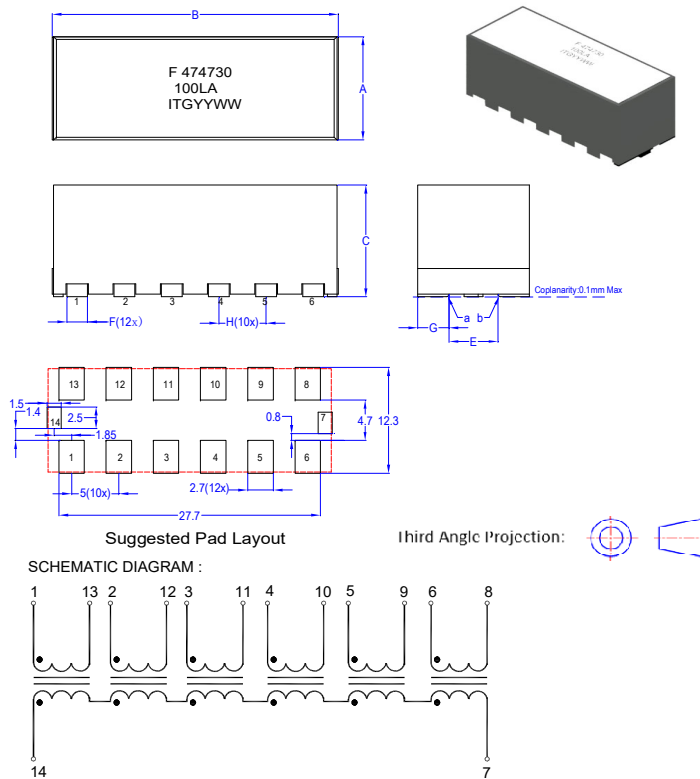


## 1. Configuration & Dimensions (in mm):

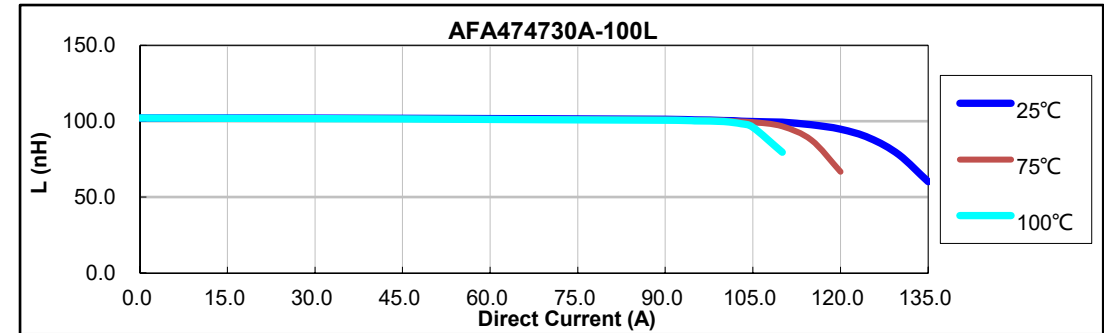


|   |       |   |      |    |
|---|-------|---|------|----|
| A | 12.00 | ± | 0.2  | mm |
| B | 30.30 | ± | 0.3  | mm |
| C | 13.00 |   | Max. | mm |
| E | 7.40  | ± | 0.2  | mm |
| G | 2.20  | ± | 0.2  | mm |
| F | 2.20  | ± | 0.2  | mm |
| H | 5.00  | ± | 0.2  | mm |

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

- Open Circuit Inductance OCL1: 100.0nH ± 15% at 500KHz, 0.25Vrms, 0Adc, at 25°C.  
OCL2(Pin14-Pin7): 600.0nH ± 20% at 500KHz, 0.25Vrms, 0Adc, at 25°C.
- Isat for OCL1/OCL2: Isat1=115.0Adc @ 25°C, Isat2=103.0A @ 75°C, Isat3=95.0Adc @ 100°C  
this DC current that will cause inductance to drop approximately by 20%.
- L @ Isat: 72.0nH Min. at Isat1=115.0Adc.
- Irms1: 73.0A, DC current that causes an approximate temperature rise (ΔT) of 40°C.  
Irms2: 22.0A, DC current that causes an approximate temperature rise (ΔT) of 40°C.
- DCR1: 0.15 ± 10% mΩ. measured from point "a" to point "b",  
DCR2: 5.60 ± 10% mΩ. measured from Pin 7 to Pin 14,  
as shown on the left mechanical drawing (Ta=25°C).
- High pot: 100Vdc, 1s, 3mA.

## 3. Inductance Characteristics (Inductance vs. Current):



### Notes:

- T & R Qtys: 100 pcs, 13" Reel.
- Operating Temperature Range -55°C to + 130°C.
- Rohs and HF Compliance Component.
- Operating frequency up to 5.0 MHz.
- OCL1 and DCR1 and Irms1: Pin 1-13/Pin 2-12/Pin 3-11/Pin 4-10/Pin 5-9/Pin 6-8.  
OCL2 and DCR2 and Irms2: Pin 14-7.

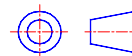
### REVISION HISTORY

| REV | DATE      | DESCRIPTION | APPROVED  |
|-----|-----------|-------------|-----------|
| A.0 | 2023/1/10 | New         | Eva Zhong |
|     |           |             |           |
|     |           |             |           |
|     |           |             |           |
|     |           |             |           |
|     |           |             |           |

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN mm.

TOLERANCES  
2PL ± 0.30  
3PL ± 0.15

Third Angle Projection



ITG Electronics, Inc.

**AFA474730A-100L**  
6 in 1, TL, 100.0nH, 115.0A,  
0.15mΩ DCR

DWG. NO.

**AFA474730A-100L**

SCALE: 1/1



REV.  
A.0

SHEET

1 OF 1