

SMD SHIELDED POWER INDUCTOR



6.6 x 5.6 x 1.1mm

ALPI-6611



RoHS
Compliant

FEATURES:

- Shielded magnetics, low radiation
- Large Terminal surface for good PCB bonding
- Low DCR, High Energy storage, suitable for large currents
- Ideal for a variety of DC-DC converter inductor applications

APPLICATIONS:

- Portable communication equipment
- OA equipment
- LCD, DVD, modem, set-top box
- DC/DC converters

STANDARD SPECIFICATIONS:

PARAMETERS

| | |
|------------------------|---|
| ABRACON P/N: | ALPI-6611 Series |
| Operating temperature: | -40°C to + 85°C |
| Storage temperature: | -40°C to + 85°C, 70% RH max. |
| Measuring Conditions: | Unless specified, test condition should be Temp.=15~35°C, Humidity=25~75%. If needed, then test condition should be Temp.=18~ 22°C, Humidity=60~70%. |

| Part Number | Inductance (µH) | DCR (?) Max | SRF (MHz) Typ. | Rated DC current (A) | |
|----------------|-----------------|---------------|----------------|------------------------|------------------------|
| | | | | Idc ¹ , Max | Idc ¹ , Max |
| ALPI-6611-1R2N | 1.2 | 0.08 | 190 | 2.1 | 1.7 |
| ALPI-6611-1R5N | 1.5 | 0.1 | 140 | 1.9 | 1.5 |
| ALPI-6611-2R2N | 2.2 | 0.12 | 115 | 1.6 | 1.4 |
| ALPI-6611-3R3N | 3.3 | 0.16 | 90 | 1.3 | 1.2 |
| ALPI-6611-4R7N | 4.7 | 0.2 | 88 | 1.1 | 1.1 |
| ALPI-6611-6R8N | 6.8 | 0.32 | 66 | 0.9 | 0.85 |
| ALPI-6611-100M | 10 | 0.41 | 55 | 0.8 | 0.75 |
| ALPI-6611-150M | 15 | 0.55 | 42 | 0.65 | 0.6 |
| ALPI-6611-220M | 22 | 0.85 | 38 | 0.5 | 0.52 |
| ALPI-6611-330M | 33 | 1.3 | 29 | 0.4 | 0.42 |
| ALPI-6611-470M | 47 | 1.8 | 22 | 0.35 | 0.36 |
| ALPI-6611-680M | 68 | 2.5 | 18 | 0.3 | 0.3 |
| ALPI-6611-101M | 100 | 3.5 | 14 | 0.25 | 0.26 |
| ALPI-6611-151M | 150 | 5 | 12 | 0.18 | 0.21 |
| ALPI-6611-221M | 220 | 7 | 10 | 0.16 | 0.18 |
| ALPI-6611-331M | 330 | 15 | 8 | 0.13 | 0.13 |

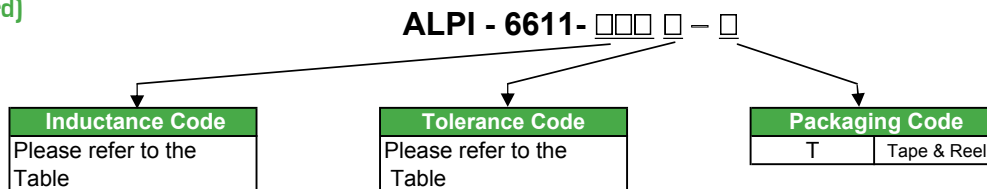
Note

1. IDC 1 : Base on Inductance change ($|\Delta L/L_0| \leq 10\%$), $\Delta L=L(\text{IDC})-L_0$
2. IDC 2 : Base on Temperature change (T<40C)
3. Test Freq.: 100kHz, 0.1V

Inductance Tolerance: M: ±20% N: ±30%

OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)



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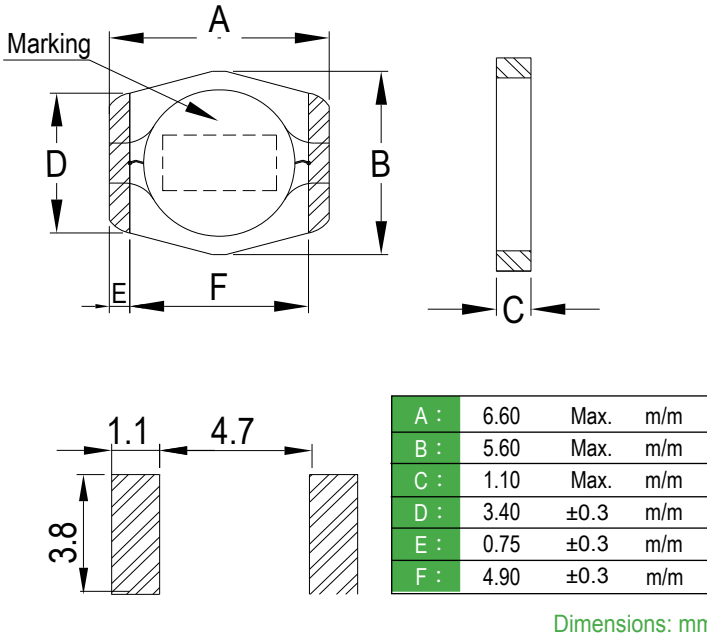


6.6 x 5.6 x 1.1mm

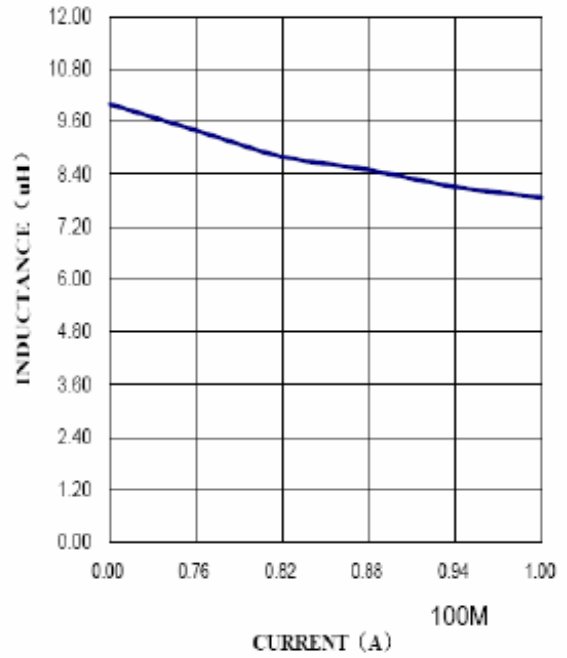
ALPI-6611



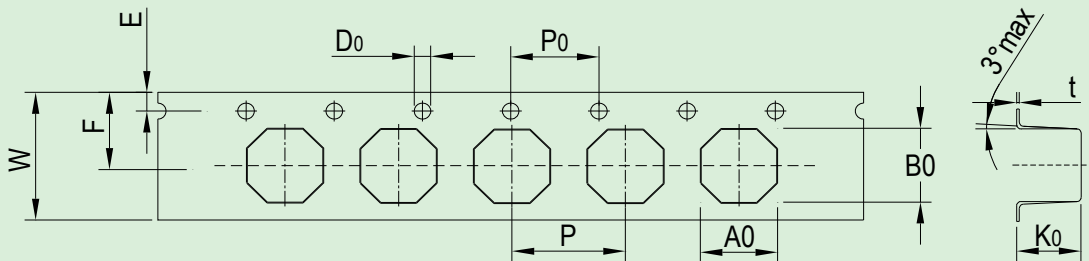
OUTLINE DRAWING:



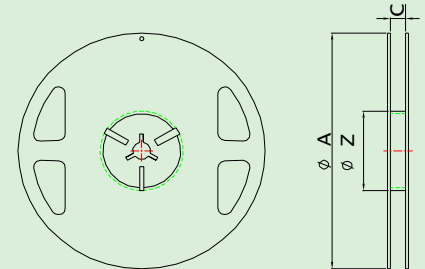
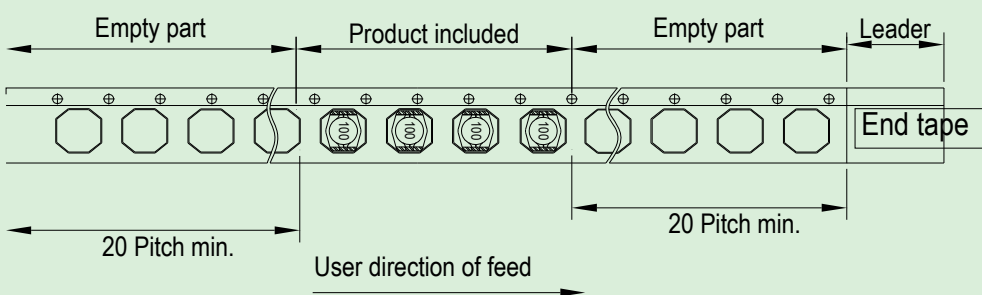
CHARACTERISTIC CURVE:



TAPE & REEL: Tape and reel 2,500pcs/reel



| W | E | F | P | A0 | B0 | D0 | P0 | K0 | t |
|----------|----------|----------|---------|---------|---------|---------|---------|---------|-----------|
| 16.0±0.3 | 1.75±0.1 | 9.25±0.1 | 8.0±0.1 | 6.0±0.1 | 7.0±0.1 | 1.5±0.1 | 4.0±0.1 | 1.5±0.1 | 0.35±0.05 |



| series | A | C | Z |
|-----------|---------|------|---------|
| ALPI-6611 | 330±2.0 | 16.5 | 100±1.0 |

Dimensions: mm

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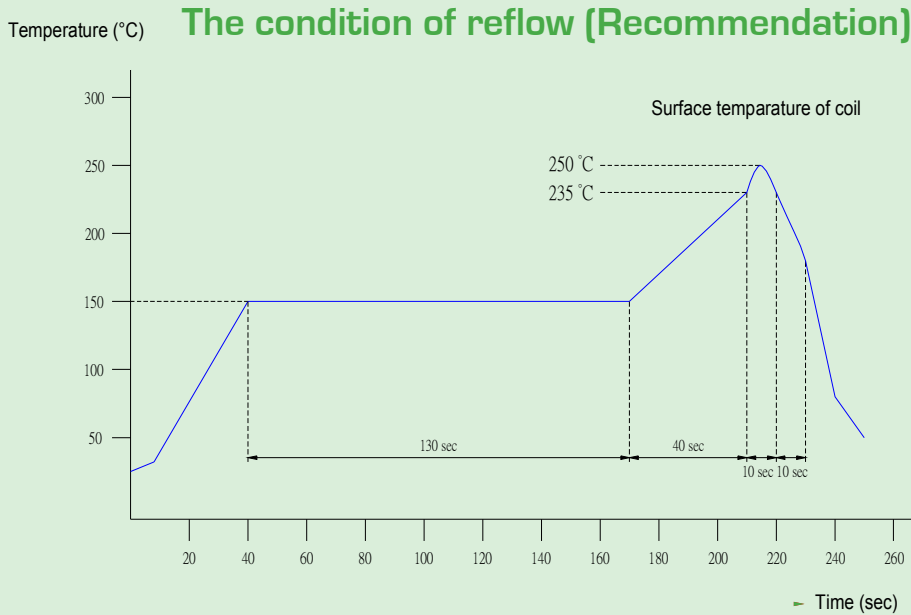
6.6 x 5.6 x 1.1mm

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REFLOW PROFILE:



The reflow condition recommended above is according to the machine used by our company. Big differences will arise as a result of the type of machine, reflow conditions, method, etc used. Hence, before setting up your reflow conditions. Please confirm with the above. Moreover, please clear all questions.

NOTE: Abracon manufactured products are intended for general commercial and industrial use. For applications requiring high reliability and/or presenting extreme operating environment, written consent & authorization from Abracon is required.

ABRACON IS
ISO 9001 / QS 9000
CERTIFIED



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