

Molding Type Power Inductor

ASPI-0530HI



RoHS
Compliant



5.6 x 5.2 x 3.0 mm

FEATURES:

- High saturation current.
- Low loss due to low DC resistance.
- Frequency application up to 3MHz.
- Low profile with max thickness 3.0mm.
- 100% lead free and metted RoHS standard.
- Suitable for reflow soldering.
- High reliable SMD package

APPLICATIONS:

- DC/DC converters in Notebook, Netbook, desktop and server
- Low profile, high current power supplies.

STANDARD SPECIFICATIONS

| | |
|-----------------------------------|---|
| Abracon P/N: | ASPI-0530HI Series |
| Operating Temperature & Humidity: | -55°C to +125°C (Including self generated heat) |
| Storage Temperature & Humidity: | +25°C to +35°C, 45% to 85% RH |

| Part Number | Inductance | Tolerance | DCR Typ | DCR Max | Saturation Current | Temperature Rise Current |
|-----------------|------------|-----------|---------|---------|--------------------|--------------------------|
| Units | μH | % | mΩ | mΩ | A | A |
| Symbol | L | M | | | Isat* | Irms* |
| ASPI-0530HI-1R0 | 1.0 | M | 13.0 | 14.0 | 11.0 | 7.0 |
| ASPI-0530HI-1R5 | 1.5 | M | 20.0 | 25.0 | 10.0 | 6.0 |
| ASPI-0530HI-2R2 | 2.2 | M | 29.0 | 35.0 | 9.0 | 5.5 |

Test Conditions

Inductance is measured in HP-4284A Precision LCR Meter.

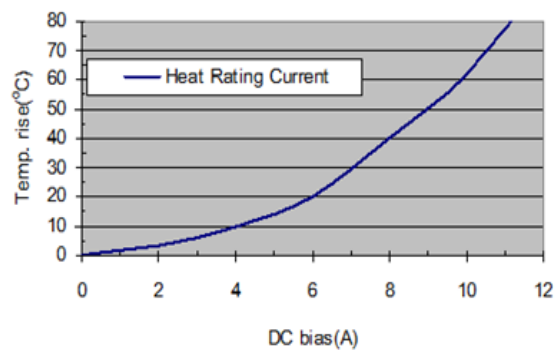
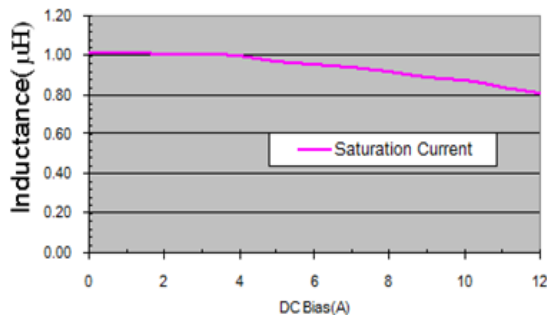
RDC is measured in HP-4338B milli ohm meter.(or equivalent).

Isat: Based on inductance change ($\Delta L/L_0 : \leq -20\%$)

Irms: Based on temperature rise ($\Delta T : 40^\circ\text{C TYP.}$)

ELECTRICAL CHARACTERISTIC CURVES

ASPI-0530HI-1R0



Molding Type Power Inductor

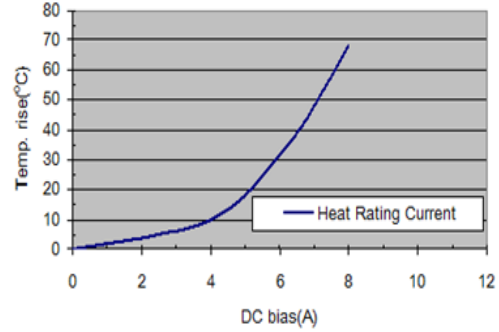
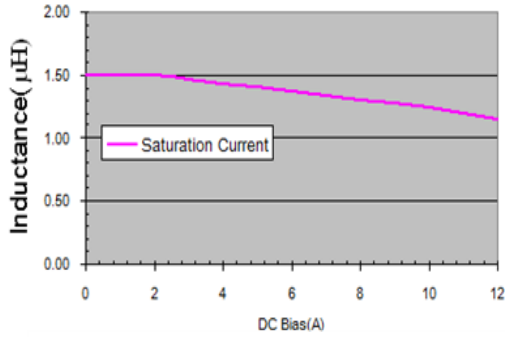
ASPI-0530HI



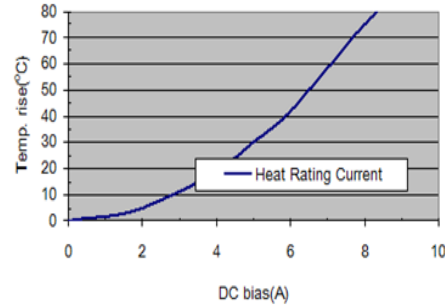
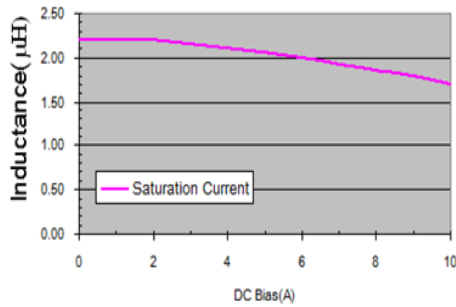
5.6 x 5.2 x 3.0 mm

ELECTRICAL CHARACTERISTIC CURVES

ASPI-0530HI-1R5



ASPI-0530HI-2R2



PART NUMBER IDENTIFICATION

ASPI-0530HI- -

Inductance Code

Please refer to the Electrical Spec Table

Tolerance

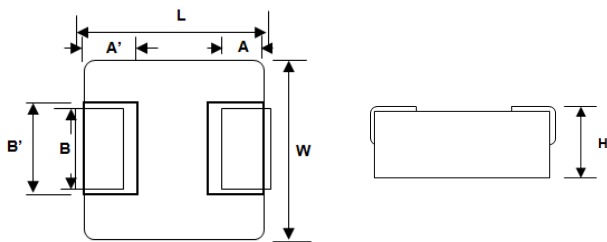
M: ±20%

Packaging

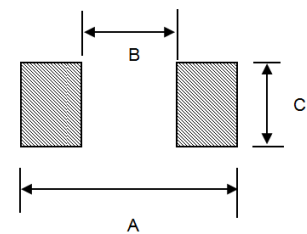
T2: Tape and Reel (2kpcs / reel)

OUTLINE DRAWING:

Recommended Land Pattern



| A | A' | B | B' | L | W | H max |
|----------|----------|----------|----------|------------|----------|-------|
| 1.0 ±0.4 | 1.5 ±0.1 | 2.0 ±0.3 | 2.5 ±0.2 | 5.60 ±0.35 | 5.2 ±0.2 | 3.0 |



| A | B | C |
|------|-----|-----|
| 5.99 | 2.2 | 2.5 |

Dimension: mm

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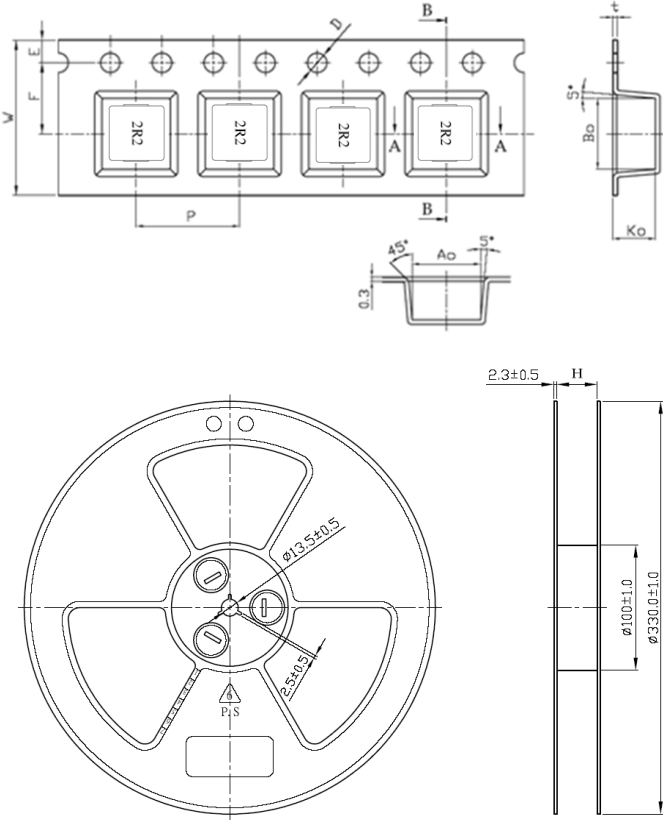
RoHS
Compliant



5.6 x 5.2 x 3.0 mm

TAPE & REEL:

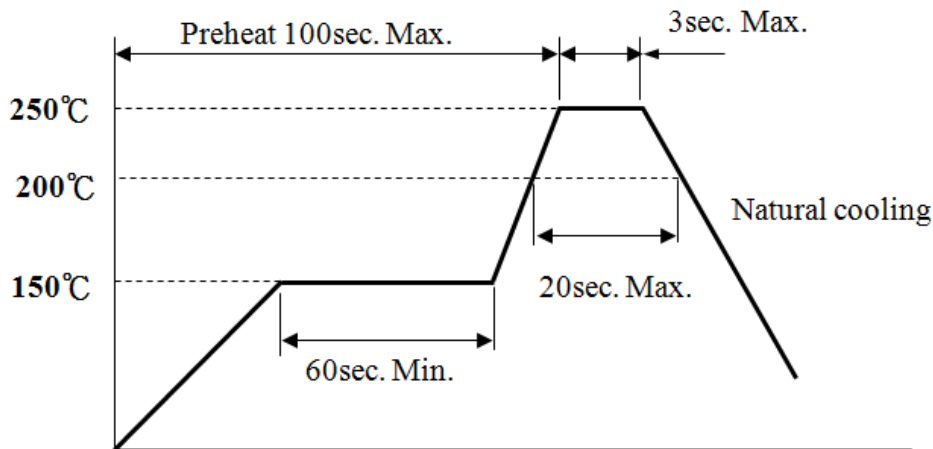
T2: 2,000pcs / reel



| | |
|----|------|
| A0 | 5.3 |
| B0 | 5.5 |
| K0 | 3.3 |
| P | 8.0 |
| t | 0.4 |
| W | 12 |
| E | 1.75 |
| F | 5.5 |
| D | 1.5 |

Dimension: mm

REFLOW PROFILE:



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Revised: 11.17.11

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