Molding Type Power Inductor

ASPI-0530HI

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 meted 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

<table>
<thead>
<tr>
<th>Abracon P/N:</th>
<th>ASPI-0530HI Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature &amp; Humidity:</td>
<td>-55°C to +125°C (Including self generated heat)</td>
</tr>
<tr>
<td>Storage Temperature &amp; Humidity:</td>
<td>+25°C to +35°C, 45% to 85% RH</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inductance</th>
<th>Tolerance</th>
<th>DCR Typ</th>
<th>DCR Max</th>
<th>Saturation Current</th>
<th>Temperature Rise Current</th>
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<tbody>
<tr>
<td></td>
<td>Units</td>
<td>%</td>
<td>mΩ</td>
<td>mΩ</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>Symbol</td>
<td>Symbol</td>
<td>L</td>
<td>M</td>
<td>M</td>
<td>Isat*</td>
<td>Irms*</td>
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<tr>
<td>ASPI-0530HI-1R0</td>
<td>1.0</td>
<td>M</td>
<td>13.0</td>
<td>14.0</td>
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<td>ASPI-0530HI-1R5</td>
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<tr>
<td>ASPI-0530HI-2R2</td>
<td>2.2</td>
<td>M</td>
<td>29.0</td>
<td>35.0</td>
<td>9.0</td>
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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 ($\Delta L/Lo : \leq -20\%$)
Irms: Based on temperature rise ($\Delta T : 40°C$ TYP.)

ELECTRICAL CHARACTERISTIC CURVES

ASPI-0530HI-1R0
Molding Type Power Inductor

ASPI-0530HI

RoHS Compliant

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

Tolerance

Packaging

Please refer to the Electrical Spec Table

M: ±20%

T2: Tape and Reel (2kpcs / reel)

OUTLINE DRAWING:

Recommended Land Pattern

Dimension: mm

A B C
5.99 2.2 2.5

ABRACON IS
ISO 9001:2008
CERTIFIED

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Revised: 11.17.11
Molding Type Power Inductor

ASPI-0530HI

RoHS Compliant

5.6 x 5.2 x 3.0 mm

TAPE & REEL:

T2: 2,000pcs / reel

Dimension: mm

REFLOW PROFILE:

ATTENTION: Abracon Corporation’s products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon’s products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.

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Revised: 11.17.11
30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

<table>
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<tr>
<td>B0</td>
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<tr>
<td>K0</td>
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<td>F</td>
<td>5.5</td>
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<tr>
<td>D</td>
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