**Dimensions:**

- **Inches (mm)**

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>.118±.008</td>
<td>.118±.008</td>
<td>.039</td>
<td>.039 Ref.</td>
<td>.039 Ref.</td>
</tr>
</tbody>
</table>

**Recommended PCB Layout**

**Features**

- Magnetically Shielded Construction
- Low Profile
- Low DC Resistance

**Electrical**

- **Inductance Range:** 1.0 - 47µH
- **Tolerance:** 30% 1.0-1.5µH, 20% 2.2-47µH
- **Operating Temp:** -40°C to +125°C
- **MSL:** Level 1
- **Isat:** DC current at which the inductance drops approximately 30% from its value without current.
- **Irms:** DC current that causes the temperature rise (\(\Delta T = 40°C\)) from 25°C ambient.

**Resistance to Soldering Heat**

- **Pre-Heat:** 150°C, 1Min
- **Solder Composition:** Sn96.5%, Ag3%, Cu0.5%
- **Temperature:** 245±5°C
- **Flux for Lead Free:** Rosin 9.5%
- **Dip Time:** 4±1Sec
- **Depth:** Completely cover the termination

**Test Equipment**

- **(L):** HP4284A, CH11025, CH3302, CH1320S
- **LCR Meter:** CH16502, Agilent 33420A Micro-oHm
- **Meter:**

**Physical**

- **Packaging:** 2000 per 13” Reel
- **Marking:** EIA Code
SMD SEMI SHIELDED POWER CHIP INDUCTOR  

Package Information

**Reel Dimension**

![Reel Dimension Diagram]

**Tape Dimension**

![Tape Dimension Diagram]

**Tearing Off Force**

The force for tearing off cover tape is 15 to 80 grams in the arrow direction under the following conditions.

<table>
<thead>
<tr>
<th>Room Temp. (°C)</th>
<th>Room Humidity (%)</th>
<th>Room atm (hPa)</th>
<th>Tearing Speed mm/min</th>
</tr>
</thead>
<tbody>
<tr>
<td>5~35</td>
<td>45~85</td>
<td>860~1060</td>
<td>300</td>
</tr>
</tbody>
</table>

**Application Notice**

- **Storage Conditions**
  To maintain the solderability of terminal electrodes:
  2. Temperature and humidity conditions: Less than 40°C and 60% RH.
  3. Recommended products should be used within 12 months form the time of delivery.
  4. The packaging material should be kept where no chlorine or sulfur exists in the air.

- **Transportation**
  1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
  2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
  3. Bulk handling should ensure that abrasion and mechanical shock are minimized.