### SMT Power Inductors – DO3340P

- Excellent current handling—up to 3.5 Arms with an 8 A saturation current rating for a 10 µH part.

**Designer's Kit C310** contains 3 of each part

**Core material**  Ferrite

**Core and winding loss**  See www.coilcraft.com/coreloss

**Terminations**  RoHS compliant electroplated gold (<50 µin) over nickel over phos bronze. Other terminations available at additional cost.

**Weight**  1.8 – 2.8 g

**Ambient temperature**  -40°C to +85°C with Irms current

**Maximum part temperature**  +105°C (ambient + temp rise)

**Storage temperature**  Component: -40°C to +105°C

**Resistance to soldering heat**  Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

**Moisture Sensitivity Level (MSL)**  1 (unlimited floor life at <30°C / 85% relative humidity)

**Packaging**  225 per 13” reel  Plastic tape: 24 mm wide, 0.4 mm thick, 24 mm pocket spacing, 11.4 mm pocket depth

**PCB washing**  Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

---

<table>
<thead>
<tr>
<th>Part number</th>
<th>L (µH)</th>
<th>±20%²</th>
<th>DCR max (Ohms)</th>
<th>SRF typ (MHz)</th>
<th>Isat³ (A)</th>
<th>Irms⁴ (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DO3340P-103ML</td>
<td>10</td>
<td>0.040</td>
<td>35</td>
<td>8.0</td>
<td>3.5</td>
<td></td>
</tr>
<tr>
<td>DO3340P-153ML</td>
<td>15</td>
<td>0.050</td>
<td>18</td>
<td>7.0</td>
<td>3.0</td>
<td></td>
</tr>
<tr>
<td>DO3340P-223ML</td>
<td>22</td>
<td>0.066</td>
<td>13</td>
<td>5.5</td>
<td>2.5</td>
<td></td>
</tr>
<tr>
<td>DO3340P-333ML</td>
<td>33</td>
<td>0.080</td>
<td>11</td>
<td>4.0</td>
<td>2.0</td>
<td></td>
</tr>
<tr>
<td>DO3340P-473ML</td>
<td>47</td>
<td>0.110</td>
<td>9.0</td>
<td>3.8</td>
<td>1.6</td>
<td></td>
</tr>
<tr>
<td>DO3340P-683ML</td>
<td>68</td>
<td>0.17</td>
<td>7.0</td>
<td>3.0</td>
<td>1.2</td>
<td></td>
</tr>
<tr>
<td>DO3340P-104ML</td>
<td>100</td>
<td>0.22</td>
<td>5.5</td>
<td>2.5</td>
<td>1.2</td>
<td></td>
</tr>
<tr>
<td>DO3340P-154ML</td>
<td>150</td>
<td>0.34</td>
<td>4.5</td>
<td>2.0</td>
<td>0.9</td>
<td></td>
</tr>
<tr>
<td>DO3340P-224ML</td>
<td>220</td>
<td>0.44</td>
<td>3.5</td>
<td>1.6</td>
<td>0.7</td>
<td></td>
</tr>
<tr>
<td>DO3340P-334ML</td>
<td>330</td>
<td>0.70</td>
<td>3.0</td>
<td>1.2</td>
<td>0.6</td>
<td></td>
</tr>
<tr>
<td>DO3340P-474ML</td>
<td>470</td>
<td>0.95</td>
<td>2.5</td>
<td>1.0</td>
<td>0.3</td>
<td></td>
</tr>
<tr>
<td>DO3340P-684ML</td>
<td>680</td>
<td>1.15</td>
<td>2.0</td>
<td>1.0</td>
<td>0.2</td>
<td></td>
</tr>
<tr>
<td>DO3340P-105ML</td>
<td>1000</td>
<td>2.0</td>
<td>1.5</td>
<td>0.8</td>
<td>0.1</td>
<td></td>
</tr>
</tbody>
</table>

1. When ordering, please specify **termination** and **packaging** codes:

   **DO3340P-105MLD**

   **Termination:**  L = RoHS compliant gold over nickel over phos bronze.  **Special order:**  T = RoHS tin-silver-copper (95.5/4/0.5) or  S = non-RoHS tin-lead (63/37).

   **Packaging:**  D = 13” machine-ready reel.  EIA-481 embossed plastic tape (225 parts per full reel).  Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge).

   B = Less than full reel.  In an effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes.  When ordering, simply change the last letter of your part number from B to D.

2. Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc using an Agilent/HP 4263B LCR meter or equivalent.

3. DC current at which inductance drops 10% (typ) from its value without current.

4. Current that causes a 20°C temperature rise from 25°C ambient

5. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.
SMT Power Inductors – DO3340P Series

Typical L vs Frequency

Typical L vs Current

Dimensions are in inches

Internal code
Dash number

Start

Finish

Parts manufactured prior to that date may have color dots. Visit www.coilcraft.com/colpower.cfm for color dot marking details.

* Allow an additional 0.01/0.254 in length and 0.005/0.127 in height for optional tin-lead and tin-silver-copper application.

Recommended Land Pattern

This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.