SMT Power Inductors - DO3314

- Only 3.3 mm square, 1.4 mm high!
- Handles current up to 1.7 Amps rms

Designer’s Kit C358 contains 3 each of all values
Core material Ferrite
Core and winding loss See www.coilcraft.com/coreloss
Terminations RoHS compliant silver-palladium-platinum-glass frit. Other terminations available at additional cost.
Weight 45.9 – 50.2 mg
Ambient temperature –40°C to +85°C with Irms current
Maximum part temperature +125°C (ambient + temp rise)
Storage temperature Component: –40°C to +125°C
Tape and reel packaging: –40°C to +80°C
Resistance to soldering heat Max three 40 second reflosts at +260°C, parts cooled to room temperature between cycles
Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)
Failures in Time (FIT) / Mean Time Between Failures (MTBF) 38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332
Packaging 1000/7″ reel; 3500/13″ reel Plastic tape: 12 mm wide, 0.23 mm thick, 8 mm pocket spacing, 1.37 mm pocket depth
PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

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

<table>
<thead>
<tr>
<th>Part number</th>
<th>L² (µH)</th>
<th>DCR max (Ohms)</th>
<th>SRF typ (MHz)</th>
<th>Isat (A)</th>
<th>Irms (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DO3314-102ML_</td>
<td>1.0</td>
<td>0.11</td>
<td>160</td>
<td>2.10</td>
<td>1.70</td>
</tr>
<tr>
<td>DO3314-152ML_</td>
<td>1.5</td>
<td>0.14</td>
<td>140</td>
<td>2.00</td>
<td>1.40</td>
</tr>
<tr>
<td>DO3314-222ML_</td>
<td>2.2</td>
<td>0.20</td>
<td>90</td>
<td>1.60</td>
<td>1.30</td>
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<tr>
<td>DO3314-332ML_</td>
<td>3.3</td>
<td>0.26</td>
<td>80</td>
<td>1.40</td>
<td>1.20</td>
</tr>
<tr>
<td>DO3314-472ML_</td>
<td>4.7</td>
<td>0.32</td>
<td>60</td>
<td>1.20</td>
<td>1.10</td>
</tr>
<tr>
<td>DO3314-682ML_</td>
<td>6.8</td>
<td>0.44</td>
<td>45</td>
<td>0.92</td>
<td>0.80</td>
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<tr>
<td>DO3314-822ML_</td>
<td>8.2</td>
<td>0.47</td>
<td>45</td>
<td>0.90</td>
<td>0.75</td>
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<tr>
<td>DO3314-103ML_</td>
<td>10</td>
<td>0.52</td>
<td>40</td>
<td>0.80</td>
<td>0.75</td>
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<tr>
<td>DO3314-153ML_</td>
<td>15</td>
<td>0.86</td>
<td>30</td>
<td>0.68</td>
<td>0.65</td>
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<tr>
<td>DO3314-223ML_</td>
<td>22</td>
<td>1.20</td>
<td>20</td>
<td>0.56</td>
<td>0.50</td>
</tr>
<tr>
<td>DO3314-333ML_</td>
<td>33</td>
<td>1.62</td>
<td>15</td>
<td>0.51</td>
<td>0.40</td>
</tr>
</tbody>
</table>

Termination: L = RoHS compliant silver-palladium-platinum-glass frit. Special order: T = RoHS tin-silver-copper (95.5/4/0.5) or S = non-RoHS tin-lead (63/37).
Packaging: C = 7″ machine-ready reel. EIA-481 embossed plastic tape (1000 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge).
D = 13″ machine-ready reel. EIA-481 embossed plastic tape (3500 parts per full reel).
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 C.

2. Inductance tested at 100 kHz. 0.1 Vrms.
3. DCR measured on a micro-ohmmeter.
4. SRF measured using Agilent/HP 4191A or equivalent.
5. DC current at which the inductance drops 10% (typ) from its value without current.
6. Current that causes a 40°C temperature rise from 25°C ambient.
7. Electrical specifications at 25°C.
Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

Coilcraft
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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.
SMT Power Inductors - DO3314 Series

Typical L vs Frequency

Typical L vs Current

Recommended Land Pattern

Dimensions are in inches

Internal code

Dash number

Specifications subject to change without notice.
Please check web site for latest information.