SMT Power Inductors - LPO3310

- Only 1.0 mm high, 3.3 mm square
- Handles current up to 2.8 Amps

Designer’s Kit C375 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 28.0 – 31.3 mg
Ambient temperature –40°C to +85°C with Irms current
Maximum part temperature +110°C (ambient + temp rise)
Storage temperature Component: –40°C to +110°C
Tape and reel packaging: –40°C to +80°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)
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
Recommended pick and place nozzle OD: 3.3 mm; ID: ≤1.65 mm
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>±20% max (µH)</th>
<th>DCR² (±20%)</th>
<th>SRF⁴ (MHz)</th>
<th>Isat⁵</th>
<th>Irms⁶</th>
</tr>
</thead>
<tbody>
<tr>
<td>LPO3310-301ML</td>
<td>0.30</td>
<td>0.040</td>
<td>420</td>
<td>2.8</td>
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<tr>
<td>LPO3310-471ML</td>
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<td>0.042</td>
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<td>LPO3310-701ML</td>
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<td>0.068</td>
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<td>1.9</td>
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<td>LPO3310-102ML</td>
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<td>LPO3310-152ML</td>
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<td>LPO3310-222ML</td>
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<td>LPO3310-332ML</td>
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<td>LPO3310-472ML</td>
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<td>LPO3310-822ML</td>
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<tr>
<td>LPO3310-153ML</td>
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<td>LPO3310-223ML</td>
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<tr>
<td>LPO3310-333ML</td>
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<tr>
<td>LPO3310-473ML</td>
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</table>

1. Inductance tested at 100 kHz, 0.1 Vrms using an Agilent/HP 4192A.
2. DCR measured on a micro-ohmmeter.
3. SRF measured using Agilent/HP 8753ES or equivalent.
5. DC current at which the inductance drops 10% (typ) from its value without current.
7. Electrical specifications at 25°C.

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.
SMT Power Inductors - LPO3310 Series

Typical L vs Frequency

Typical L vs Current

Recommended Land Pattern

Dimensions are in inches

www.coilcraft.com

Dash number
Internal code

Dash number
Internal code

Dimensions are in mm

RoHS Compliant

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