SMT Power Inductors – DO3340H

- Isat ratings up to 56 A; Irms ratings to 30 A
- Self-lead construction for excellent solderability
- 37 inductance values from 0.27 to 1000 µH
- AEC-Q200 Grade 1 qualified (–40°C to +125°C ambient)

**Core material** Ferrite

**Terminations** RoHS compliant tin-silver-copper over copper. Other terminations available at additional cost.

**Ambient temperature** –40°C to +85°C with (40°C rise) 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 refloows 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**
- 350 per 13” reel; Plastic tape: 24 mm wide, 0.5 mm thick, 16 mm pocket spacing, 11.7 mm pocket depth

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

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**Recommended Land Pattern**

Dimensions are in inches/mm

**Internal code**

**Dash number**

**Recommended Land Pattern**

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**Coilcraft**

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Specification subject to change without notice.
Please check web site for latest information.
SMT Power Inductors – DO3340H Series

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance(^2) (µH) typ</th>
<th>max</th>
<th>SRF typ(^3) (MHz)</th>
<th>Irms (A)(^4)</th>
<th>10% drop</th>
<th>20% drop</th>
<th>30% drop</th>
<th>20°C rise</th>
<th>40°C rise</th>
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<td>0.27±30%</td>
<td>1.3</td>
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1. When ordering, please specify termination code:
   - DO3340H-10SKLD
   - Termination: L = RoHS compliant tin-silver-copper over copper.
   - Special order: S = non-RoHS tin-lead (63/37).
   - Packaging: D = 13” machine-ready reel. EIA-481 embossed plastic tape (350 parts per full reel).

2. Inductance tested at 100 kHz, 0.1 Vrms, 0 A.
3. SRF measured using Agilent/HP 8753D network analyzer.
4. DC current at which inductance drops 30% (typ) from its value without current.
5. Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.
6. Electrical specifications at 25°C.

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.
SMT Power Inductors – DO3340H Series

Typical L vs Current

Typical L vs Frequency