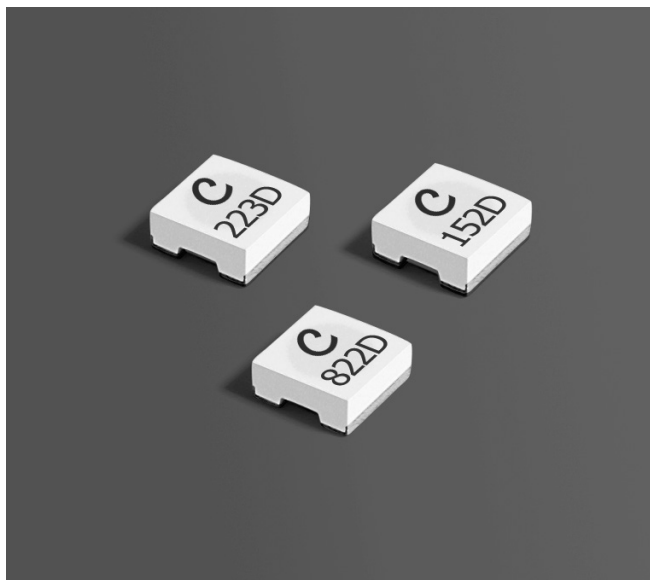




# SMT Power Inductors - DO3314



- 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](http://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, +85°C to +125°C with derated current

**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 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

**PCB washing** Tested with pure water or alcohol only. For other solvents, see Doc787\_PCB\_Washing.pdf.

Part number <sup>1</sup>	L <sup>2</sup> ±20% (µH)	DCR <sup>3</sup> max (Ohms)	SRF <sup>4</sup> typ (MHz)	Isat <sup>5</sup> (A)	Irms <sup>6</sup> (A)
DO3314-102ML_	1.0	0.11	160	2.10	1.70
DO3314-152ML_	1.5	0.14	140	2.00	1.40
DO3314-222ML_	2.2	0.20	90	1.60	1.30
DO3314-332ML_	3.3	0.26	80	1.40	1.20
DO3314-472ML_	4.7	0.32	60	1.20	1.10
DO3314-682ML_	6.8	0.44	45	0.92	0.80
DO3314-822ML_	8.2	0.47	45	0.90	0.75
DO3314-103ML_	10	0.52	40	0.80	0.75
DO3314-153ML_	15	0.86	30	0.68	0.65
DO3314-223ML_	22	1.20	20	0.56	0.50
DO3314-333ML_	33	1.62	15	0.51	0.40

- When ordering, please specify **termination** and **packaging** codes:

#### DO3314-333MLC

**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).

B = Less than full reel. In tape, but not machine ready.  
To have a leader and trailer added (\$25 charge), use code letter C instead.

D = 13" machine-ready reel. EIA-481 embossed plastic tape (3500 parts per full reel).

- Inductance tested at 100 kHz, 0.1 Vrms.
- DCR measured on a micro-ohmmeter.
- SRF measured using Agilent/HP 4191A or equivalent.
- DC current at which the inductance drops 10% (typ) from its value without current.
- Current that causes a 40°C temperature rise from 25°C ambient.
- Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

**SPICE models**  
ON OUR WEB SITE



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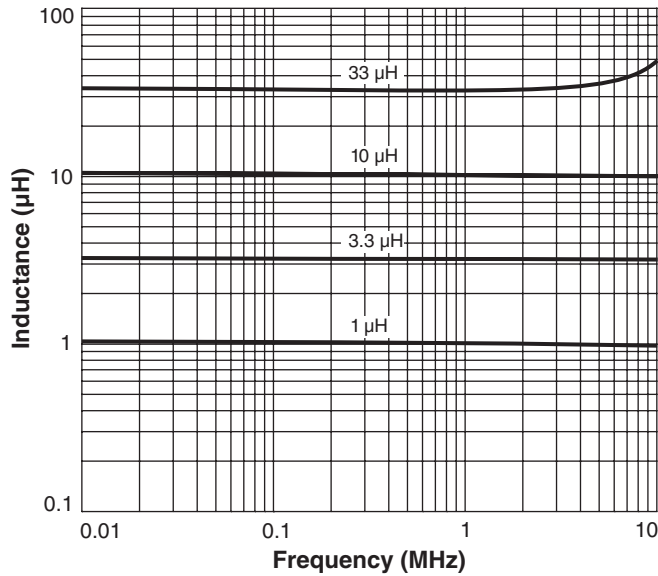
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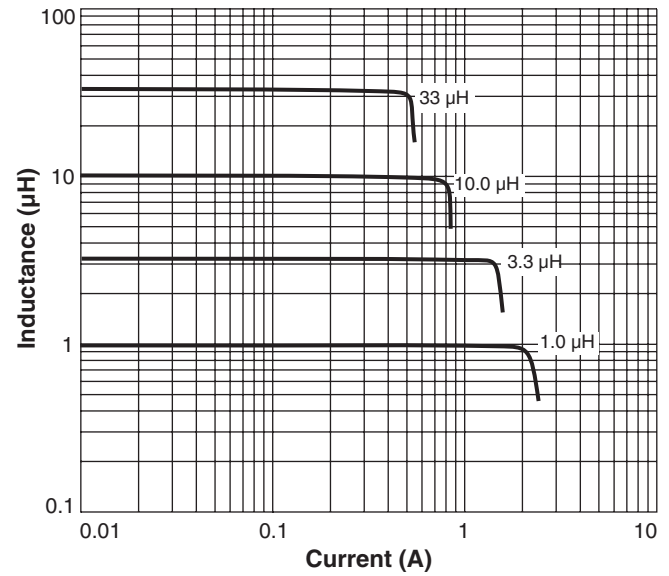


# SMT Power Inductors - DO3314 Series

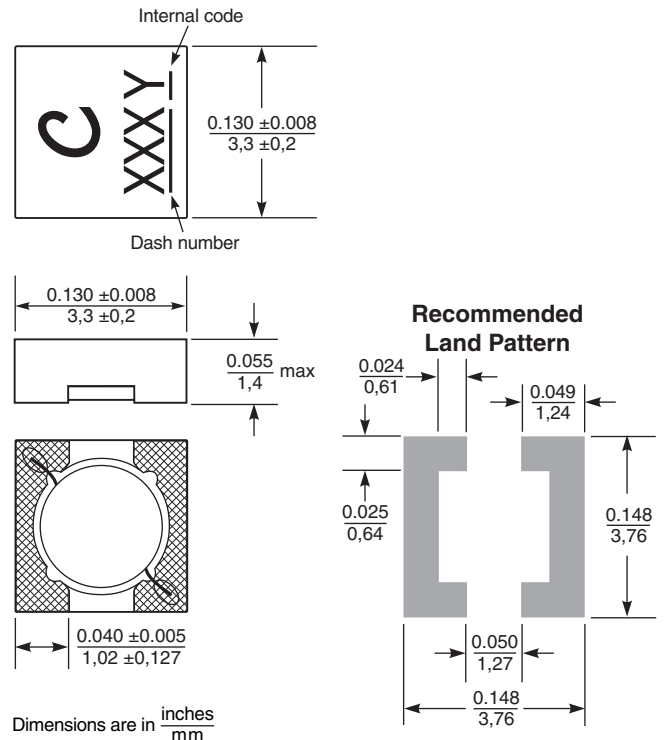
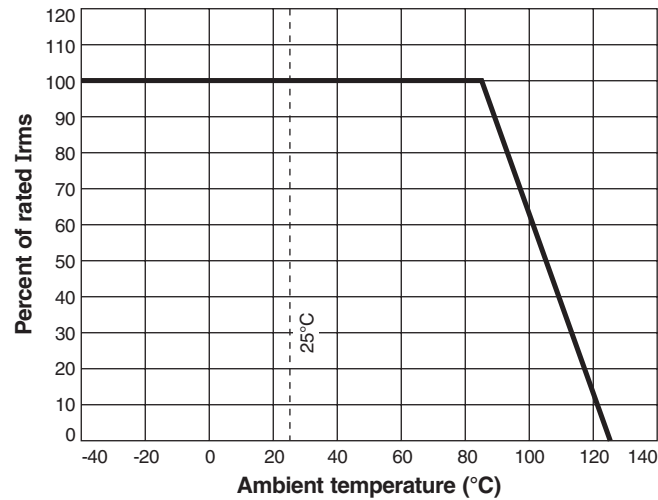
## Typical L vs Frequency



## Typical L vs Current



## Irms Derating



Dimensions are in  $\frac{\text{inches}}{\text{mm}}$



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