

SMT Power Inductors – DO3308P



- Handle saturating currents up to 4.2 Amps
- Defense Supply Center CID: A-A-59738

Designer's Kit C309 contains 3 each of all values

Core material Ferrite

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

Terminations RoHS gold over nickel over phos bronze. Other terminations available at additional cost.

Weight 594 – 640 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 1000/13" reel Plastic tape: 24 mm wide, 0.4 mm thick, 12 mm pocket spacing, 3.7 mm pocket depth

PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf

Part number ¹	L ±20% ² (µH)	Percent tol ³	DCR max (Ohms)	SRF typ (MHz)	Isat ⁴ (A)	Irms ⁵ (A)
DO3308P-472_L_	4.7	20 ,10	0.036	50	4.2	3.2
DO3308P-682_L_	6.8	20 ,10	0.060	47	3.9	2.6
DO3308P-103_L_	10	20 ,10	0.085	37	2.7	2.3
DO3308P-153_L_	15	20 ,10	0.12	35	2.3	1.9
DO3308P-223_L_	22	20 ,10	0.18	26	1.8	1.5
DO3308P-333_L_	33	20 ,10	0.25	19	1.6	1.2
DO3308P-473_L_	47	20 ,10	0.32	14	1.3	1.0
DO3308P-683_L_	68	20 ,10	0.54	12	1.1	0.9
DO3308P-104_L_	100	20 ,10	0.69	11	0.87	0.73
DO3308P-154_L_	150	20 ,10	0.94	9.0	0.74	0.62
DO3308P-224_L_	220	20 ,10	1.60	6.0	0.56	0.51
DO3308P-334_L_	330	20 ,10	2.15	5.5	0.50	0.40
DO3308P-474_L_	470	20 ,10	3.30	4.5	0.40	0.33
DO3308P-684_L_	680	20 ,10	4.40	3.5	0.33	0.28
DO3308P-105_L_	1000	20 ,10	7.00	2.5	0.29	0.23

- Please specify **tolerance, termination and packaging** codes:

DO3308P-105MLD

Tolerance: M = 20% K = 10%

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 (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 D instead.

- Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc.
 - Tolerances in bold are stocked for immediate shipment
 - DC current at which 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.

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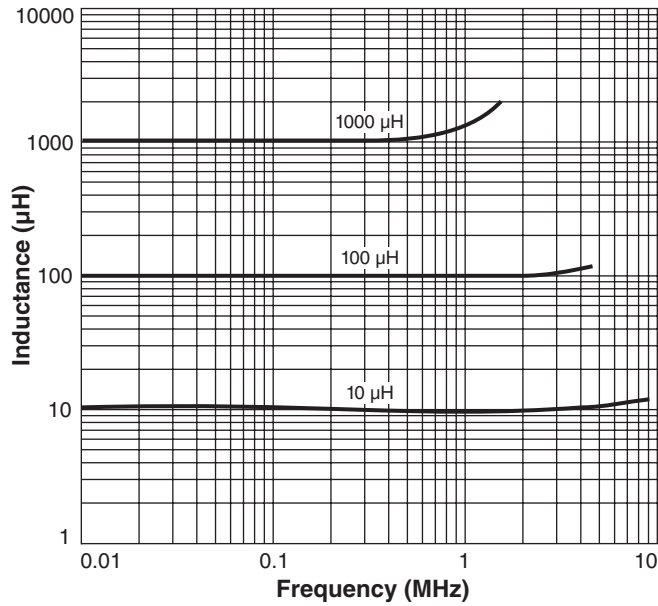
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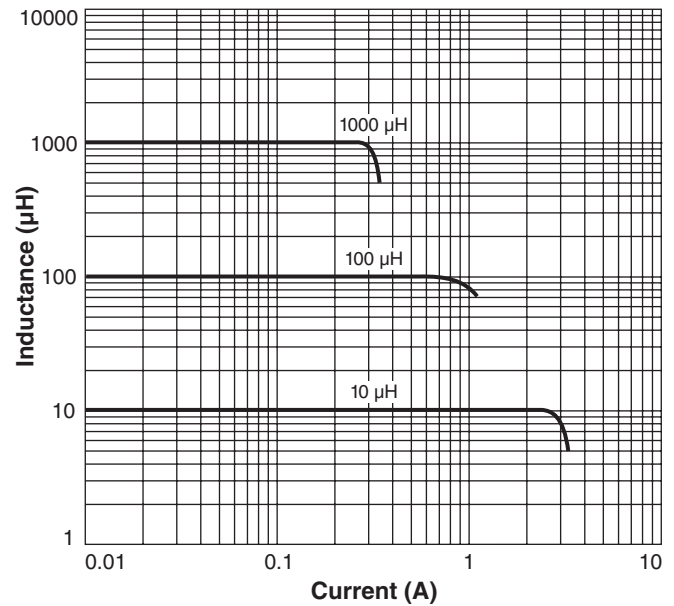


SMT Power Inductors – DO3308P Series

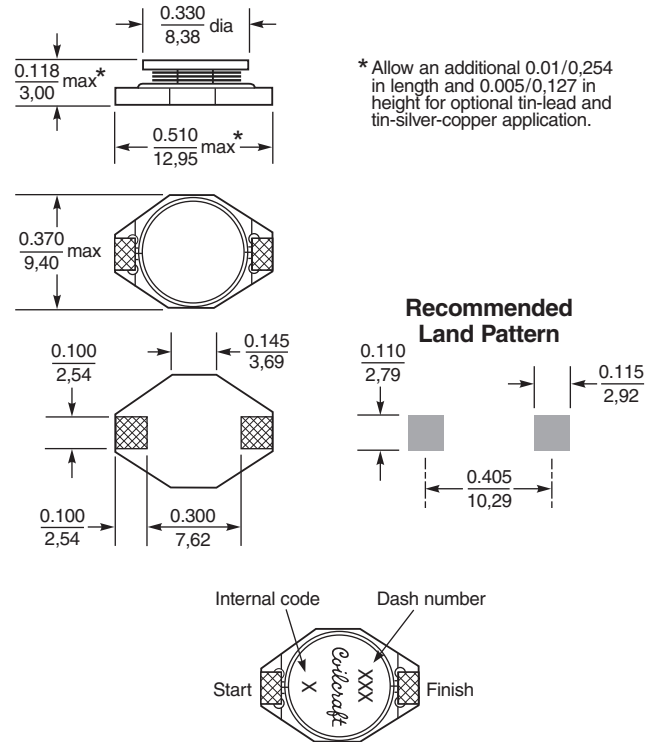
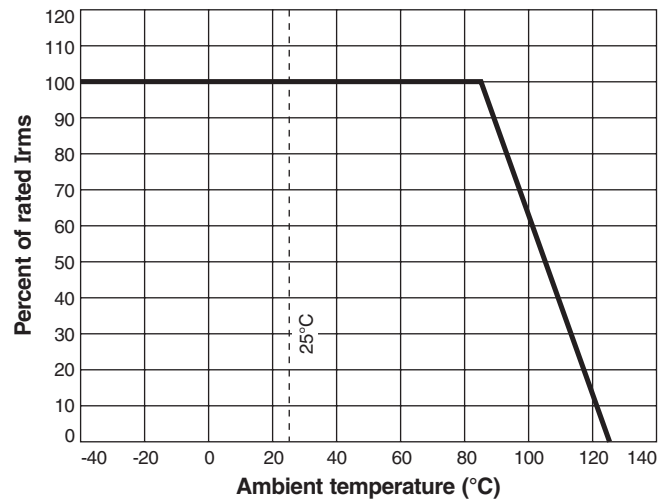
Typical L vs Frequency



Typical L vs Current



Irms Derating



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



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