







SMT Power Inductors - DO3316H Series





Part number ¹	L² (µH)	% tol ³	DCR max (Ohms)	SRF ⁴ typ (MHz)	Isat⁵ (A)	Irms ⁶ (A)
DO3316H-121ML_	0.12	20	0.0015	200	28	17
DO3316H-331ML_	0.33	20	0.002	200	20	16
DO3316H-681ML_	0.68	20	0.005	200	13	12
DO3316H-102ML_	1.0	20	0.006	100	11	10
DO3316H-152ML_	1.5	20	0.008	90	9.0	9.0
DO3316H-222_L_	2.2	20 ,10	0.011	80	7.8	7.4
DO3316H-272_L_	2.7	20 ,10	0.012	65	7.0	6.6
DO3316H-332_L_	3.3	20 ,10	0.014	60	6.4	5.9
DO3316H-392_L_	3.9	20 ,10	0.015	50	5.9	5.3
DO3316H-472_L_	4.7	20 ,10	0.018	45	5.4	4.8

Soldered self-leaded construction for excellent solderability.

• Very low DCR values and excellent current handling

Designer's Kit C326 contains 3 of each part

Core material Ferrite

Core and winding loss See www.coilcraft.com/coreloss Terminations RoHS compliant tin-silver-copper over copper. Other terminations available at additional cost. Weight 0.95– 1.25 g

Ambient temperature -40°C to +85°C with Irms current Maximum part temperature +125°C (ambient + temp rise). Derating. 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-332Packaging750 per 13" reelPlastic tape: 24 mm wide,0.35 mm thick, 12 mm pocket spacing, 6.4 mm pocket depthPCB washingTested to MIL-STD-202 Method 215 plus an additionalaqueous wash. See Doc787_PCB_Washing.pdf.

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

DO3316H-472前亡

- Tolerance:M = 20%, K = 10% (Table shows stock tolerances in bold.)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 (750 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.
- Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc using an Agilent/HP 4263B LCR meter or equivalent.
- 3. Tolerances in bold are stocked for immediate shipment.
- 4. SRF measured using Agilent/HP 8753D network analyzer.
- 5. DC current at 25°C that causes an inductance drop of 10% (typ) from its value without current. Click for temperature derating information.
- Current that causes a 40°C temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings. Click for temperature derating information

7. Electrical specifications at 25°C.

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



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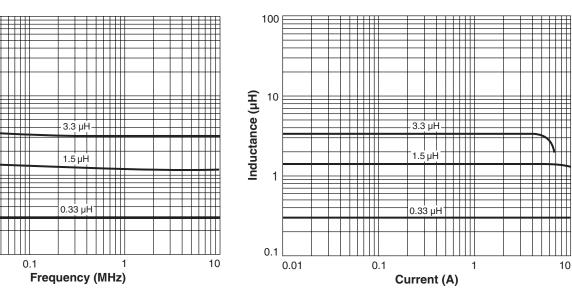
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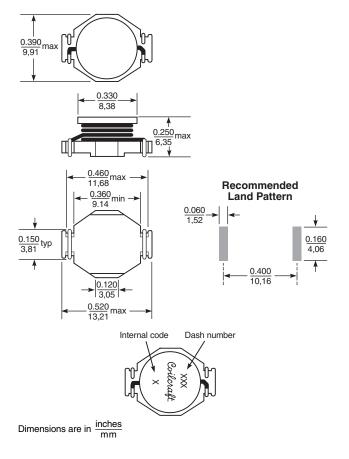
Inductance (µH)

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Typical Lvs Current







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