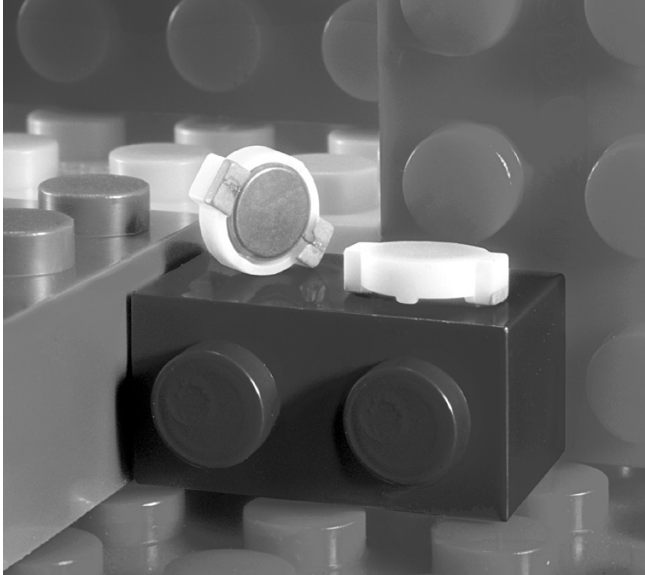


SMT Power Inductors - DO1606T



- Only 2.0 mm high
- Handles current up to 2.3 Amps rms

Designer's Kit C338 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 116– 136 mg

Ambient temperature –40°C to +85°C with 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 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 750/7" reel; 2500/13" reel Plastic tape: 12 mm wide, 0.3 mm thick, 8 mm pocket spacing, 2.5 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

Part number ¹	L ±20% ² (µH)	DCR max (Ohms)	SRF ref (MHz)	Isat ³ (A)	Irms ⁴ (A)
DO1606T-102ML_	1.0	0.04	230	2.5	2.3
DO1606T-152ML_	1.5	0.06	180	2.2	2.1
DO1606T-222ML_	2.2	0.07	140	1.8	1.7
DO1606T-332ML_	3.3	0.12	110	1.4	1.3
DO1606T-472ML_	4.7	0.15	100	1.2	1.1
DO1606T-682ML_	6.8	0.20	80	1.1	1.0
DO1606T-822ML_	8.2	0.23	70	1.0	0.95
DO1606T-103ML_	10	0.30	60	1.0	0.90
DO1606T-153ML_	15	0.40	45	0.8	0.70
DO1606T-223ML_	22	0.54	35	0.6	0.50
DO1606T-333ML_	33	0.74	30	0.5	0.45
DO1606T-473ML_	47	1.1	22	0.45	0.40
DO1606T-683ML_	68	1.6	20	0.35	0.35
DO1606T-104ML_	100	2.3	15	0.30	0.30
DO1606T-154ML_	150	3.5	10	0.25	0.25
DO1606T-224ML_	220	5.7	9	0.20	0.18
DO1606T-334ML_	330	8.2	8	0.16	0.16
DO1606T-474ML_	470	10.8	7	0.14	0.12
DO1606T-684ML_	680	17.2	5	0.12	0.10
DO1606T-105ML_	1000	22.6	4	0.08	0.08

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

DO1606T-105MLC

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 (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.

D = 13" machine-ready reel. EIA-481 embossed plastic tape (2500 parts per full reel).

- Inductance tested at 100 kHz, 0.1 Vrms, 0 Vdc.
- 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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Singapore + 65-6484 8412 sales@coilcraft.com.sg

Document 213-1 Revised 03/07/11

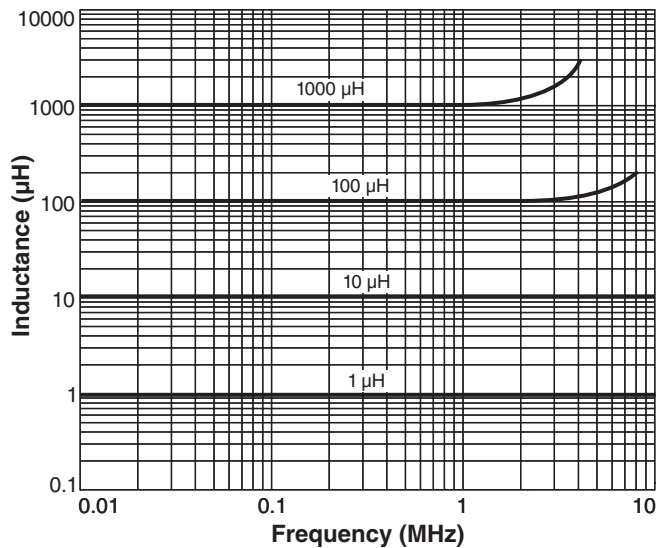
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This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.

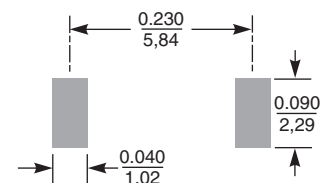
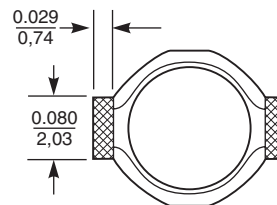
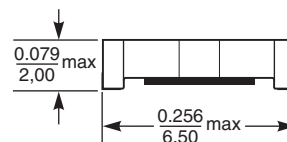
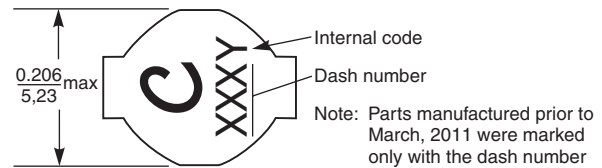
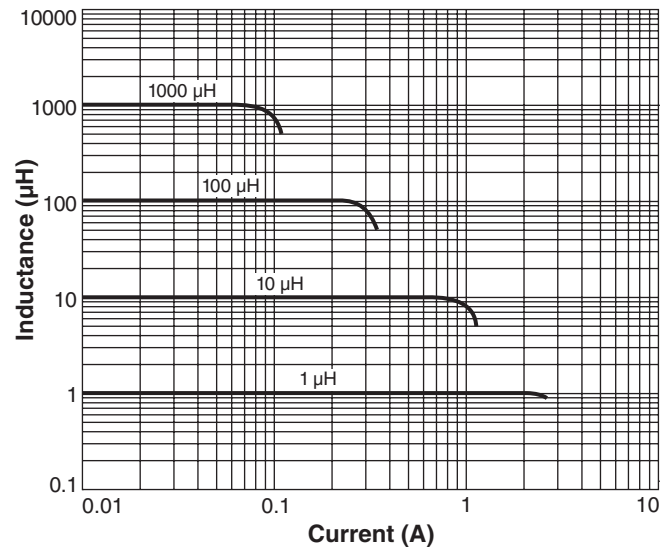


SMT Power Inductors—DO1606T Series

Typical L vs Frequency



Typical L vs Current



Recommended Land Pattern

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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Coilcraft:

[DO1606T-822MLC](#) [DO1606T-474MLC](#) [DO1606T-332MLC](#) [DO1606T-684MLC](#) [DO1606T-822MLB](#) [DO1606T-473MLC](#) [DO1606T-103MLB](#) [DO1606T-474MLB](#) [DO1606T-333MLC](#) [DO1606T-105MLB](#) [DO1606T-104MLB](#) [DO1606T-333MLB](#) [DO1606T-103MLC](#) [DO1606T-154MLB](#) [DO1606T-222MLC](#) [DO1606T-682MLC](#) [DO1606T-102MLC](#) [DO1606T-105MLC](#) [DO1606T-224MLC](#) [DO1606T-334MLB](#) [DO1606T-472MLB](#) [DO1606T-153MLC](#) [DO1606T-154MLC](#) [DO1606T-152MLC](#) [DO1606T-682MLB](#) [DO1606T-224MLB](#) [DO1606T-223MLC](#) [DO1606T-334MLC](#) [DO1606T-473MLB](#) [DO1606T-222MLB](#) [DO1606T-152MLB](#) [DO1606T-472MLC](#) [DO1606T-102MLB](#) [DO1606T-153MLB](#) [DO1606T-332MLB](#) [DO1606T-684MLB](#) [DO1606T-223MLB](#) [DO1606T-104MLC](#) [DO1606T-683MLB](#) [DO1606T-683MLC](#)