

NEW!

SMT Power Inductors – DO1813HC Series



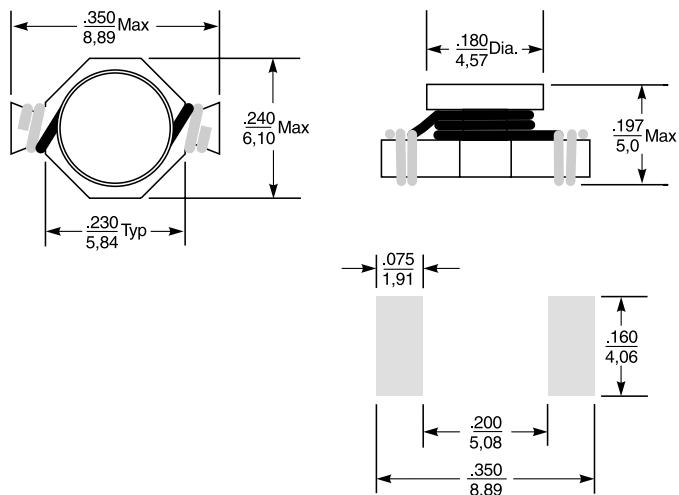
With rms current ratings up to 6 Amps, the DO1813HC Series offers the high current, low inductance values required for high power DC-DC applications.

These inductors are less than .2" (5 mm) high. They have very low resistance and a rugged self-led construction.

Standard inductance values range from .56 to 48 μH and custom values are available to meet specific requirements.

Coilcraft **Designer's Kit C131** contains samples of all inductance values. To order, contact Coilcraft or order on-line at <http://order.coilcraft.com>.

PSPICE models SEE DOC 209



Land Pattern

Parts/reel: 13" 1000 Tape width: 16 mm
For packaging data see "Tape and Reel Specifications" (Document 173)

Part number	L ref (μH)	L typ $\pm 20\%$ ¹ (μH)	DCR max (Ohms)	SRF typ (MHz)	Isat ² (A)	Irms ³ (A)
DO1813P-561HC	.56	.56	.010	200	7.7	6.0
DO1813P-122HC	1.2	1.15	.017	140	5.3	4.4
DO1813P-222HC	2.2	2.06	.035	100	3.5	3.1
DO1813P-472HC	4.7	4.70	.054	50	2.6	2.2
DO1813P-103HC	10.0	9.55	.111	40	1.9	1.5
DO1813P-153HC	15.0	15.3	.17	30	1.5	1.2
DO1813P-223HC	22.0	22.6	.25	25	1.2	1.0
DO1813P-333HC	33.0	33.5	.35	20	.99	.82
DO1813P-473HC	47.0	48.1	.47	15	.87	.72

1. Inductance tested at 0.25 Vrms, 100 kHz.
2. I_{sat} is peak current for approximately 30% roll-off.
3. $\Delta T = 40^\circ$ rise typ. at Irms (85°C ambient).
4. Operating temperature -40°C to $+85^\circ\text{C}$.
5. Electrical specifications at 25°C .

Coilcraft

Specifications subject to change without notice. Document 207 Revised 8/30/99

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