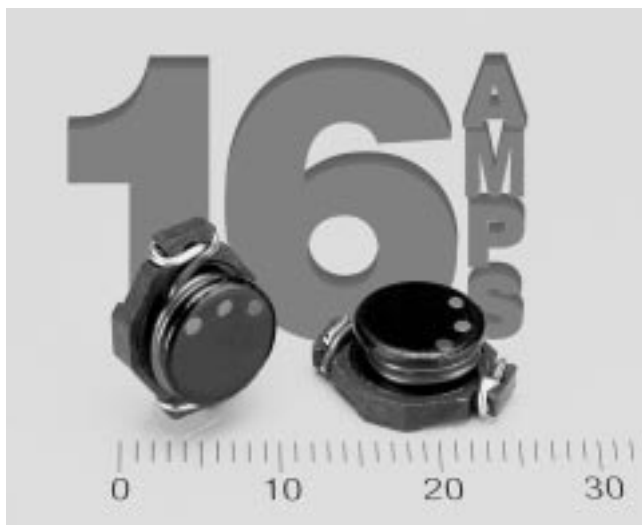


**NEW!**

# SMT Power Inductors – DO3316HC Series

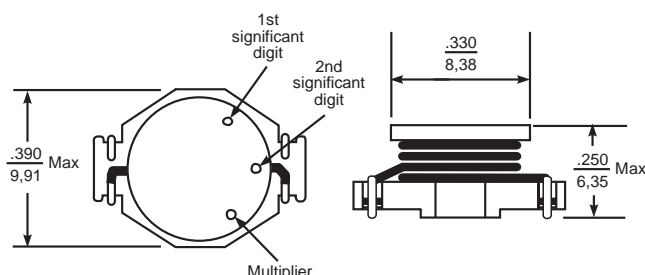


The DO3316HC series has been specially designed for high current, low voltage DC-DC converter applications.

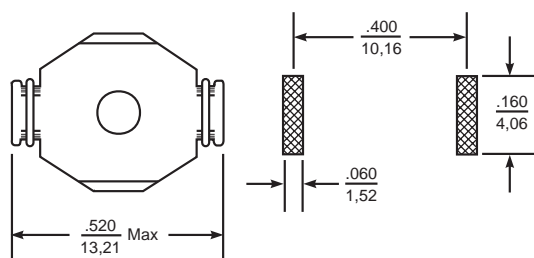
This simple, rugged design provides current ratings normally available only in much larger packages — up to 16 Arms for a .33  $\mu$ H part! With its tinned self-leaded construction, the DO3316HC achieves very low DCR values and excellent solderability. In addition to the standard parts shown, custom values are also available.

The DO3316HC series includes features such as tape and reel packaging and a flat top for pick-and-place handling that are standard in all Coilcraft SMT power products.

Coilcraft **Designer's Kit C126** contains 3 samples each of the standard parts shown. To order, contact Coilcraft.



## Land Pattern



Parts/reel: 13" 750 Tape width: 24 mm  
For packaging data see "Tape and Reel Specifications" (Document 173)

Part Number	Inductance <sup>1</sup> ( $\mu$ H $\pm$ 20%)	DCR max. ( $\Omega$ )	SRF typ <sup>2</sup> (MHz)	Isat <sup>3</sup> (A)	Irms <sup>4</sup> (A)
DO3316P-331HC	.33	.002	300	20.0	16.0
DO3316P-681HC	.68	.005	200	13.0	12.0
DO3316P-102HC	1.0	.006	100	11.0	10.0
DO3316P-152HC	1.5	.008	90	9.0	9.0
DO3316P-222HC	2.2	.011	90	7.8	7.4
DO3316P-272HC	2.7	.012	65	7.0	6.6
DO3316P-332HC	3.3	.014	65	6.4	5.9
DO3316P-472HC	4.7	.018	45	5.4	4.8

For environmental data see "Product Specifications" (Document 164).

1. Inductance tested at 100 kHz, 0.1 Vrms.
2. SRF measured using HP8753D network analyzer.
3. Inductance drop = 10% typ. at Isat.
4.  $\Delta T = 40^\circ\text{C}$  typ at I rms.
5. Operating temperature range  $-40^\circ\text{C}$  to  $+85^\circ\text{C}$
6. Electrical specifications at  $25^\circ\text{C}$ .

# Coilcraft

Specifications subject to change without notice. Document 196 Revised 12/22/98

1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469  
E-mail info@coilcraft.com Data by Fax 800/651-6974 Web http://www.coilcraft.com