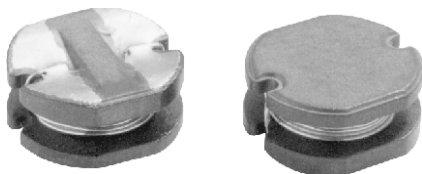


# High Current, Surface Mount Inductors - Non-Shielded



## FEATURES

- High energy storage
- Low resistance
- Tape and reel packaging for automatic handling
- Material categorization:  
For definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



**RoHS**  
COMPLIANT  
HALOGEN  
**FREE**

## ELECTRICAL SPECIFICATIONS

**Inductance Range:** 10  $\mu$ H to 560  $\mu$ H

**Inductance Tolerance:** 20 %

**Operating Temperature:** -25 °C to +105 °C

**Storage Temperature:** -40 °C to +125 °C

**Resistance to Solder Heat:** 260 °C for 10 s

## MATERIALS

**Core:** Ferrite

**Wire:** Enamelled copper wire

**Terminals:** Ni and Sn/Ag/Cu

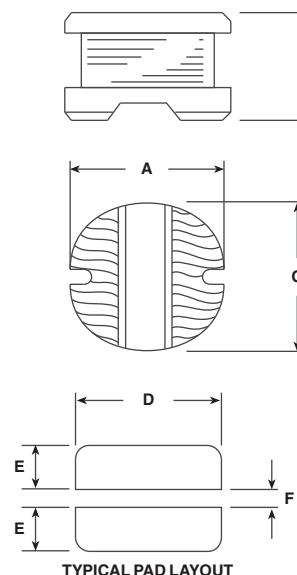
## STANDARD ELECTRICAL SPECIFICATIONS

INDUCTANCE ( $\mu$ H)	TEST FREQUENCY L	DCR MAX. ( $\Omega$ )	RATED DC CURRENT (A) <sup>(1)</sup>
10.0	2.52 MHz	0.05	2.38
12.0	2.52 MHz	0.06	2.13
15.0	2.52 MHz	0.07	1.87
18.0	2.52 MHz	0.08	1.73
22.0	2.52 MHz	0.09	1.60
27.0	2.52 MHz	0.10	1.44
33.0	2.52 MHz	0.12	1.26
39.0	2.52 MHz	0.15	1.20
47.0	2.52 MHz	0.17	1.10
56.0	2.52 MHz	0.20	1.01
68.0	2.52 MHz	0.22	0.91
82.0	2.52 MHz	0.25	0.85
100.0	1 kHz	0.34	0.74
120.0	1 kHz	0.40	0.69
150.0	1 kHz	0.54	0.61
180.0	1 kHz	0.62	0.56
220.0	1 kHz	0.72	0.53
270.0	1 kHz	0.95	0.45
330.0	1 kHz	1.10	0.42
390.0	1 kHz	1.24	0.38
470.0	1 kHz	1.53	0.35
560.0	1 kHz	1.90	0.32

### Note

<sup>(1)</sup> Rated Current: Value obtained when current flows and the temperature has risen 40 °C or when DC current flows and the initial value of inductance has fallen by 10 %, whichever is smaller.

## DIMENSIONS in inches [millimeters]



TYPICAL PAD LAYOUT

A	B	C
0.394 $\pm$ 0.01 [10.0 $\pm$ 0.3]	0.158 $\pm$ 0.02 [4.0 $\pm$ 0.5]	0.355 $\pm$ 0.01 [9.0 $\pm$ 0.3]
D	E	F
0.374 [9.5]	0.148 [3.75]	0.099 [2.5]

## DESCRIPTION

<b>IDCP-3916</b>	<b>10 <math>\mu</math>H</b>	<b><math>\pm</math> 20 %</b>	<b>ER</b>	<b>e1</b>
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

## GLOBAL PART NUMBER

<b>I</b>	<b>D</b>	<b>C</b>	<b>P</b>	<b>3</b>	<b>9</b>	<b>1</b>	<b>6</b>	<b>E</b>	<b>R</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>M</b>
PRODUCT FAMILY				SIZE				PACKAGE CODE		INDUCTANCE VALUE			INDUCTANCE TOLERANCE



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**Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.**

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Components Supply Platform

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