

## High Current, Surface Mount Inductors - Non-Shielded



### ELECTRICAL SPECIFICATIONS

**Inductance Range:** 10  $\mu$ H to 330  $\mu$ 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

### 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**

### MATERIALS

**Core:** Ferrite

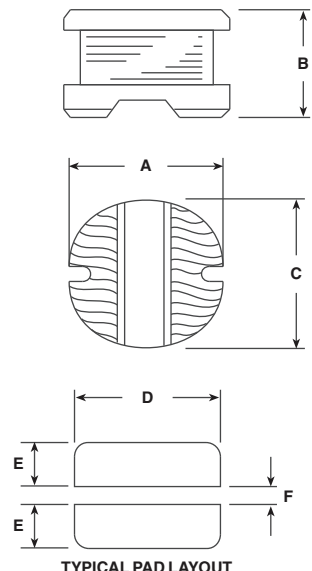
**Wire:** Enamelled copper wire

**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	0.08	1.44
12.0	2.52 MHz	0.09	1.39
15.0	2.52 MHz	0.10	1.24
18.0	2.52 MHz	0.11	1.12
22.0	2.52 MHz	0.13	1.07
27.0	2.52 MHz	0.15	0.94
33.0	2.52 MHz	0.17	0.85
39.0	2.52 MHz	0.22	0.74
47.0	2.52 MHz	0.25	0.68
56.0	2.52 MHz	0.28	0.64
68.0	2.52 MHz	0.33	0.59
82.0	2.52 MHz	0.41	0.54
100.0	1 kHz	0.48	0.51
120.0	1 kHz	0.54	0.49
150.0	1 kHz	0.75	0.40
180.0	1 kHz	1.02	0.36
220.0	1 kHz	1.20	0.31
270.0	1 kHz	1.31	0.29
330.0	1 kHz	1.50	0.28

**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]		
 <p>TYPICAL PAD LAYOUT</p>		
A	B	C
0.307 $\pm$ 0.01 [7.8 $\pm$ 0.3]	0.138 $\pm$ 0.02 [3.5 $\pm$ 0.5]	0.276 $\pm$ 0.01 [7.0 $\pm$ 0.3]
D	E	F
0.296 [7.5]	0.118 [3.0]	0.079 [2.0]

DESCRIPTION				
IDCP-3114	10 $\mu$ H	$\pm$ 20 %	ER	e1
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER				
I	D	C	P	
PRODUCT FAMILY				
3	1	1	4	
SIZE				
E	R			
PACKAGE CODE				
1	0	0		M
INDUCTANCE VALUE				INDUCTANCE TOLERANCE



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