

High Current, Surface Mount Inductors - Non-Shielded



ELECTRICAL SPECIFICATIONS

Inductance Range: 10 μ H to 330 μ 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



RoHS
COMPLIANT
HALOGEN
FREE

MATERIALS

Core: Ferrite

Wire: Enamelled copper wire

Terminals: Ni and Sn/Ag/Cu

STANDARD ELECTRICAL SPECIFICATIONS			
INDUCTANCE (μ H)	TEST FREQUENCY L	DCR MAX. (Ω)	RATED DC CURRENT (A) ⁽¹⁾
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

⁽¹⁾ 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 μ 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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