



IDCP-3114

Vishay Dale

High Current, Surface Mount Inductor



FEATURES

- High energy storage
- Low resistance
- Tape and reel packaging for automatic handling
- 100 % lead (Pb)-free and RoHS compliant



RoHS
COMPLIANT

ELECTRICAL SPECIFICATIONS

Inductance Range: 10.0 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 seconds

MATERIALS

Core: Ferrite

Wire: Enamelled copper wire

Terminal: Ni + Sn/Ag/Cu

STANDARD ELECTRICAL SPECIFICATIONS

INDUCTANCE (μ H)	TEST FREQUENCY L	DCR MAXIMUM (Ohms)	RATED DC CURRENT* (A)
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

*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
0.307 $\pm$ 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 MODEL	10 μH INDUCTANCE VALUE	$\pm$ 20 % INDUCTANCE TOLERANCE	ER PACKAGE CODE	e1 JEDEC LEAD (Pb)-FREE STANDARD
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GLOBAL PART NUMBER

I	D	C	P	3	1	1	4	E	R	1	0	0	M
MODEL				SIZE				PACKAGE CODE		INDUCTANCE VALUE			INDUCTANCE TOLERANCE



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