IDCP-1813



Vishay Dale

High Current, Surface Mount Inductors - Non-Shielded



ELECTRICAL SPECIFICATIONS

Inductance Range: 1.0 µH to 68 µH Inductance Tolerance: 20 % Operating Temperature: -40 °C to +125 °C (temperature rise included)# Storage Temperature: -40 °C to +125 °C Resistance to Solder Heat: 260 °C for 10 s

STANDARD ELECTRICAL SPECIFICATIONS			
INDUCTANCE (µH)	TEST FREQUENCY L	DCR MAX. (Ω)	RATED DC CURRENT (A) ⁽¹⁾
1.0	7.96 MHz	0.033	3.80
1.4	7.96 MHz	0.038	3.30
1.8	7.96 MHz	0.042	2.91
2.2	7.96 MHz	0.047	2.60
2.7	7.96 MHz	0.052	2.43
3.3	7.96 MHz	0.058	2.15
3.9	7.96 MHz	0.076	1.98
4.7	7.96 MHz	0.094	1.70
5.6	7.96 MHz	0.101	1.60
6.8	7.96 MHz	0.117	1.41
8.2	7.96 MHz	0.132	1.26
10.0	2.52 MHz	0.182	1.15
12.0	2.52 MHz	0.210	1.05
15.0	2.52 MHz	0.235	0.92
18.0	2.52 MHz	0.338	0.84
22.0	2.52 MHz	0.378	0.76
27.0	2.52 MHz	0.522	0.71
33.0	2.52 MHz	0.540	0.64
39.0	2.52 MHz	0.587	0.59
47.0	2.52 MHz	0.844	0.54
56.0	2.52 MHz	0.937	0.50
68.0	2.52 MHz	1.117	0.46

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

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



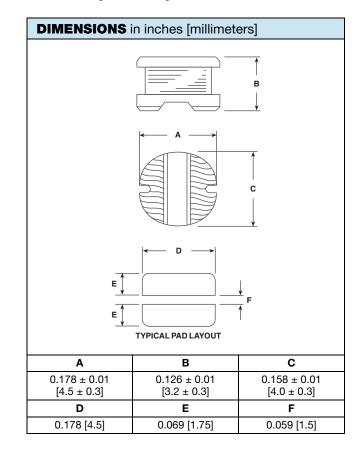
COMPLIANT

HALOGEN

FREE

MATERIALS

Core: ferrite Wire: enamelled copper wire Terminals: Ag and Sn / Ag / Cu



DESCRIPTION **IDCP-1813** 10 µH ± 20 % ER e1 MODEL INDUCTANCE VALUE INDUCTANCE TOLERANCE PACKAGE CODE JEDEC® LEAD (Pb)-FREE STANDARD **GLOBAL PART NUMBER** L D С Ρ 1 8 1 3 Е R 1 0 0 Μ INDUCTANCE VALUE PRODUCT FAMILY SIZE PACKAGE INDUCTANCE CODE TOLERANCE Revision: 20-Jun-17 Document Number: 34094 1

For technical questions, contact: magnetics@vishay.com

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