IDCP-3114



Vishay Dale

High Current, Surface Mount Inductors - Non-Shielded



ELECTRICAL SPECIFICATIONS

Inductance Range: 10 µH to 330 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 RATED DC TEST INDUCTANCE DCR MAX. CURRENT FREQUENCY (µH) (Ω) (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 0.25 2.52 MHz 0.68 0.28 0.64 56.0 2.52 MHz 68.0 0.33 0.59 2.52 MHz 82.0 0.41 0.54 2.52 MHz 100.0 0.48 1 kHz 0.51 120.0 0.54 0.49 1 kHz 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

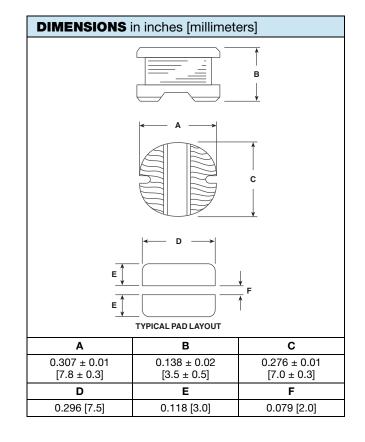
(1) Rated Current: Value obtained when current flows and the temperature has risen 40 °C or when DC current flows and the initial value of inductance has fallen by 10 %, whichever is smaller

FEATURES

- · High energy storage
- Low resistance
- Tape and reel packaging for automatic handling
- Material categorization: COMPLIANT HALOGEN for definitions of compliance please see www.vishay.com/doc?99912

MATERIALS

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



DESCRIPTION					
IDCP-3114	10 µH	± 20 %	ER	e1	
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC [®] LEAD (Pb)-FREE STANDARD	
GLOBAL PART NUMBER					
I D	СР	3 1 1 4	ER	1 0 0	Μ
PRODUC	CT FAMILY	SIZE	PACKAGE CODE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE
Revision: 20-Jun-17		1 Document Nu		ent Number: 34091	



RoHS

FREE

For technical questions, contact: magnetics@vishay.com

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