## **IDCP-3020**



Vishay Dale

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



### **ELECTRICAL SPECIFICATIONS**

Inductance Range: 10 µH to 470 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) <sup>(1)</sup>
10.0	2.52 MHz	0.07	2.30
12.0	2.52 MHz	0.08	2.00
15.0	2.52 MHz	0.09	1.80
18.0	2.52 MHz	0.10	1.60
22.0	2.52 MHz	0.11	1.50
27.0	2.52 MHz	0.12	1.30
33.0	2.52 MHz	0.13	1.20
39.0	2.52 MHz	0.16	1.10
47.0	2.52 MHz	0.18	1.10
56.0	2.52 MHz	0.24	0.94
68.0	2.52 MHz	0.28	0.85
82.0	2.52 MHz	0.37	0.78
100.0	1 kHz	0.43	0.72
120.0	1 kHz	0.47	0.66
150.0	1 kHz	0.64	0.58
180.0	1 kHz	0.71	0.51
220.0	1 kHz	0.96	0.49
270.0	1 kHz	1.11	0.42
330.0	1 kHz	1.26	0.40
390.0	1 kHz	1.77	0.36
470.0	1 kHz	1.96	0.34

#### Note

<sup>(1)</sup> Rated Current: Value obtained when current flows and the temperature has risen 40  $^\circ$ C or when DC current flows and the initial value of inductance has fallen by 10 %, whichever is smaller

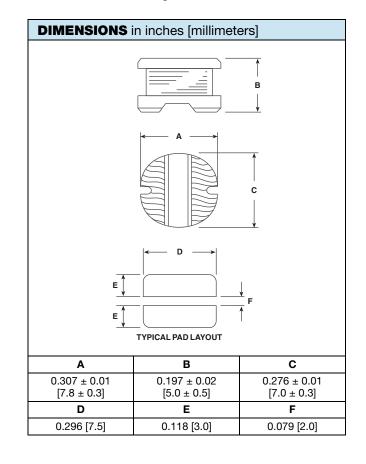
### **FEATURES**

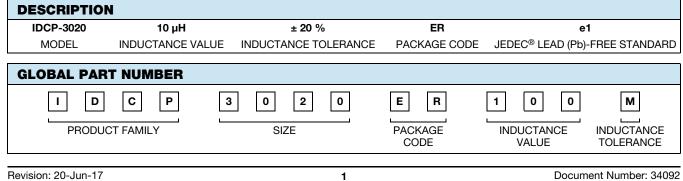
- · High energy storage
- Low resistance
- Tape and reel packaging for automatic handling
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

#### RoHS COMPLIANT HALOGEN FREE

### MATERIALS

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





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For technical questions, contact: magnetics@vishay.com

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