### Vishay Dale



# **High Current, Surface Mount Inductor**





#### **ELECTRICAL SPECIFICATIONS**

Inductance Range: 10.0 µH to 470 µH

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

#### STANDARD ELECTRICAL SPECIFICATIONS **RATED TEST DCR** DC **INDUCTANCE FREQUENCY MAXIMUM CURRENT\*** (µH) (Ohms) (A) 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 2.52 MHz 33.0 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 0.28 0.85 2.52 MHz 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

\*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

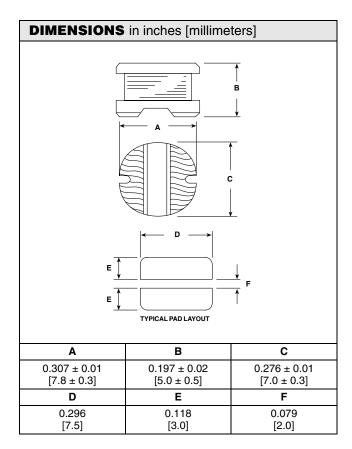
• 100 % lead (Pb)-free and RoHS compliant



### **MATERIALS**

Core: Ferrite

Wire: Enamelled copper wire Terminal: Ni + Sn/Ag/Cu



DESCRIPTION				
IDCP-3020	10 μΗ	± 20 %	ER	e1
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD
GLOBAL PART NUMBER				
I D C P	3 0 2 SIZE	O E PACH		0 0 M  JCTANCE INDUCTANCE TOLERANCE

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# **Legal Disclaimer Notice**



Vishay

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Document Number: 91000 www.vishay.com Revision: 08-Apr-05