Vishay Dale



High Current, Surface Mount Inductor





ELECTRICAL SPECIFICATIONS

Inductance Range: 10.0 μH to 470 μH

Inductance Tolerance: 20 %

Operating Temperature: - 25 $^{\circ}$ C to + 105 $^{\circ}$ C Storage Temperature: - 40 $^{\circ}$ C to 125 $^{\circ}$ C

Resistance to Solder Heat: 260 °C for 10 seconds

STANDARD ELECTRICAL SPECIFICATIONS						
INDUCTANCE (µH)	TEST FREQUENCY L	DCR MAXIMUM (Ohms)	RATED DC CURRENT* (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			
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			

*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



• Tape and reel packaging for automatic handling

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

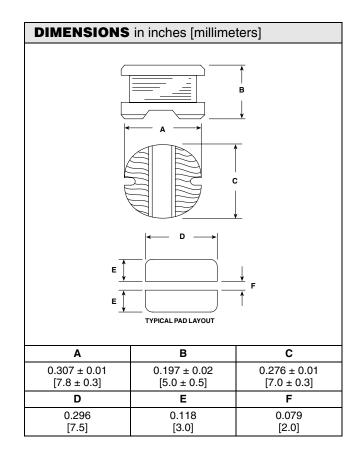
Pb-free

COMPLIANT

MATERIALS

Core: Ferrite

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



DESCRIPTION					
IDCP-3020	10 µH	± 20 %		e1	
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD STAND	
GLOBAL PART NUM	BER				
I D C P	3 0 2 SIZE	PACKA CODE			M IDUCTANCE OLERANCE

Legal Disclaimer Notice



Vishay

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