



# **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

#### **FEATURES**

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

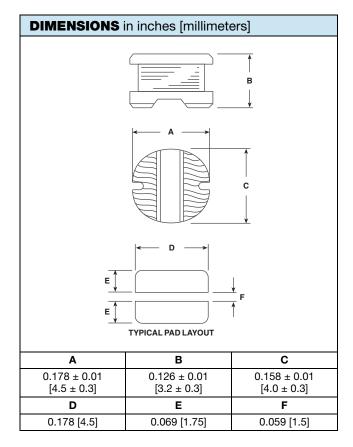


HALOGEN FREE

#### **MATERIALS**

Core: ferrite

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



DESCRIPTION	N			
IDCP-1813	10 μH	± 20 %	ER	e1
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER				
I D C P	1 8 1 3	E R	1 0 0	M
PRODUCT FAMILY	SIZE	PACKAGE CODE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE

<sup>(1)</sup> 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



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IDCP1813NB120M	IDCP1813NB1R8N	IDCP1813NB1R0N	IDCP1813NB3R3N	M IDCP1813NB3R9M
IDCP1813NB220M	IDCP1813NB390M	IDCP1813ER120M	IDCP1813ER150M	IDCP1813ER180M
IDCP1813ER1R8M	IDCP1813ER220M	IDCP1813ER270M	IDCP1813ER2R2M	IDCP1813ER2R7M
IDCP1813ER330M	IDCP1813ER390M	IDCP1813ER3R3M	IDCP1813ER3R9M	IDCP1813ER5R6M
IDCP1813ER8R2M	IDCP1813NB150M	IDCP1813NB180M	IDCP1813NB5R6M	IDCP1813NB2R7M
IDCP1813NB2R2M	IDCP1813NB4R7M	IDCP1813NB8R2M	IDCP1813NB270M	IDCP1813NB330M
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