

High Current, Surface Mount Inductors - Non-Shielded



ELECTRICAL SPECIFICATIONS

Inductance Range: 1.0 μ H to 68 μ H
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 (μ H)	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

⁽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: for definitions of compliance please see www.vishay.com/doc?99912

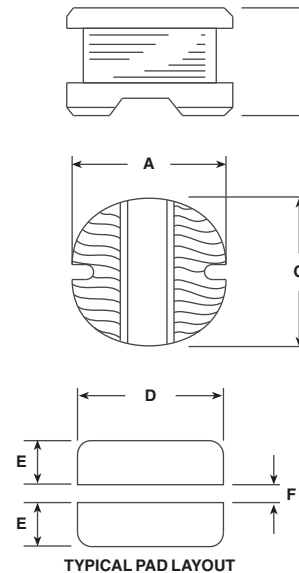


RoHS COMPLIANT
HALOGEN FREE

MATERIALS

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

DIMENSIONS in inches [millimeters]



A	B	C
0.178 ± 0.01 [4.5 ± 0.3]	0.126 ± 0.01 [3.2 ± 0.3]	0.158 ± 0.01 [4.0 ± 0.3]
D	E	F
0.178 [4.5]	0.069 [1.75]	0.059 [1.5]

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

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



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