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# Wirewound, Surface-Mount, Molded Inductors





STA	NDARE	ELECTRI	SPECIFICATIONS			
IND. (μH)	TOL.	TEST FREQ. (MHz) L & Q	Q MIN.	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA) (1)
0.010 0.012 0.018 0.022 0.027 0.033 0.039 0.047 0.056 0.068 0.082 0.10 0.15 0.18 0.22 0.27 0.33 0.39 0.47 0.56 0.68 0.82 1.0 1.2 1.5 1.8 2.2 2.7 3.3 3.9 4.7 5.6 6.8 8.2 10.0 12.0 15.0 18.0 12.0 15.0 18.0 12.0 15.0 18.0 12.0 15.0 18.0 12.0 15.0 18.0 12.0 27.0 33.0 39.0 47.0 56.0 68.0 82.0 100.0 100.0 150.0 180.0 270.0 390.0 470.0 560.0 680.0 820.0 1000.0	± 20 % ± 20 % ± 20 % ± 20 % ± 20 % ± 20 % ± 20 % ± 20 % ± 20 % ± 20 % ± 20 % 6 ± 20	50.0 70.0 70.0	55555555555555555555555555555555555555	1000 1000 1000 1000 1000 1000 1000 100	$\begin{array}{c} 0.20 \\ 0.20 \\ 0.20 \\ 0.30 \\ 0.30 \\ 0.35 \\ 0.45 \\ 0.55 \\ 0.65 \\ 0.70 \\ 0.80 \\ 0.75 \\ 0.80 \\ 0.$	450 450 450 450 450 450 450 450

### Note

Rated DC current based on the maximum temperature rise, not to exceed 40 °C at +85 °C ambient

### **FEATURES**

 Molded construction provides superior strength and moisture resistance



- Tape and reel packaging for automatic handling, 2000/reel, EIA-481
- ROHS

- Printed marking
- Compatible with vapor phase and infrared reflow soldering
- Material categorization: for definitions of compliance please see <a href="https://www.vishay.com/doc?99912"><u>www.vishay.com/doc?99912</u></a>

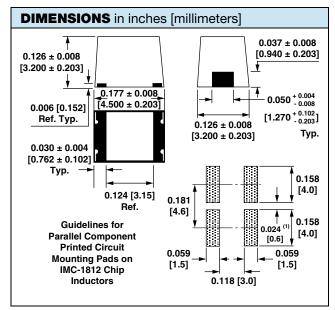
## **ELECTRICAL SPECIFICATIONS**

Inductance range:  $0.010~\mu H$  to  $1000~\mu H$ Special tolerances available upon request Operating temperature: -55 °C to +125 °C

**Coilform material:** non-magnetic for 0.010  $\mu$ H to 0.82  $\mu$ H; powdered iron for 1.0  $\mu$ H to 120  $\mu$ H; ferrite for 150  $\mu$ H to 1000  $\mu$ H

#### **TEST EQUIPMENT**

- H/P 4342A Q meter with Vishay Dale test fixture or equivalent
- H/P 4191A RF impedance analyzer (for SRF measurements)
- Wheatstone bridge



#### Note

(1) Recommended minimum spacing between components

# **PART MARKING**

- Vishay Dale
- Inductance code
- Date code



Vishay Dale

DESCRIPTION									
IMC-1812	10 μH	± 10 %	ER	e3					
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD					

GLOBAL PART NUMBER								
PRODUCT FAMILY	1 8 1 2 SIZE	PACKAGE CODE	1 0 0 INDUCTANCE VALUE	K TOL.				



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