# IMC-1812

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Vishay Dale

# Wirewound, Surface Mount, Molded Inductors



STA	NDARE	CAL	SPECIFICATIONS			
IND. (µH)	TOL.	TEST FREQ. (MHz) L & Q	Q MIN.	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA) <sup>(1)</sup>
$\begin{array}{c} 0.010\\ 0.012\\ 0.018\\ 0.022\\ 0.033\\ 0.039\\ 0.047\\ 0.056\\ 0.068\\ 0.082\\ 0.12\\ 0.15\\ 0.12\\ 0.15\\ 0.18\\ 0.22\\ 0.27\\ 0.33\\ 0.39\\ 0.47\\ 0.56\\ 0.68\\ 0.82\\ 1.0\\ 1.2\\ 1.5\\ 1.8\\ 0.22\\ 0.27\\ 0.33\\ 0.39\\ 0.47\\ 0.56\\ 0.68\\ 0.82\\ 1.0\\ 1.2\\ 1.5\\ 1.8\\ 8.2\\ 1.0\\ 0.56\\ 0.68\\ 0.82\\ 0.47\\ 0.56\\ 0.68\\ 0.82\\ 0.0\\ 1.2\\ 0.27\\ 0.33\\ 0.39\\ 0.47\\ 0.56\\ 0.68\\ 0.82\\ 0.27\\ 0.33\\ 0.39\\ 0.47\\ 0.56\\ 0.68\\ 0.82\\ 0.0\\ 12.0\\ 12.0\\ 12.0\\ 12.0\\ 12.0\\ 12.0\\ 12.0\\ 12.0\\ 12.0\\ 12.0\\ 0.27.0\\ 33.0\\ 39.0\\ 39.0\\ 39.0\\ 390.0\\ 390.0\\ 390.0\\ 390.0\\ 390.0\\ 390.0\\ 100.0\\$	$\begin{array}{l} \$ & \$ & \$ & \$ & \$ & \$ & \$ & \$ & \$ & \$ $	$\begin{array}{c} 50.0\\ 50.0\\ 50.0\\ 50.0\\ 50.0\\ 50.0\\ 50.0\\ 50.0\\ 50.0\\ 50.0\\ 50.0\\ 25.2\\ 2.52\\$	$\begin{array}{c} 50\\ 50\\ 50\\ 50\\ 50\\ 50\\ 50\\ 50\\ 50\\ 50\\$	$\begin{array}{c} 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 500\\ 250\\ 220\\ 250\\ 250\\ 250\\ 250\\ $	$\begin{array}{c} 0.20\\ 0.20\\ 0.20\\ 0.20\\ 0.30\\ 0.30\\ 0.35\\ 0.35\\ 0.35\\ 0.35\\ 0.35\\ 0.30\\ 0.35\\ 0.30\\ 0.35\\ 0.30\\ 0.35\\ 0.30\\ 0.35\\ 0.30\\ 0.35\\ 0.30\\ 0.35\\ 0.30\\ 0.35\\ 0.30\\ 0.35\\ 0.30\\ 0.35\\ 0.30\\ 0.35\\ 0.30\\ 0.45\\ 0.55\\ 0.76\\ 0.80\\ 0.75\\ 0.80\\ 0.90\\ 0.120\\ 0.80\\ 0.55\\ 0.70\\ 0.80\\ 0.55\\ 0.70\\ 0.80\\ 0.55\\ 0.75\\ 0.80\\ 0.55\\ 0.75\\ 0.80\\ 0.55\\ 0.75\\ 0.80\\ 0.55\\ 0.75\\ 0.80\\ 0.55\\ 0.75\\ 0.80\\ 0.55\\ 0.75\\ 0.80\\ 0.55\\ 0.75\\ 0.80\\ 0.55\\ 0.75\\ 0.80\\ 0.55\\ 0.75\\ 0.80\\ 0.55\\ 0.75\\ 0.80\\ 0.55\\ 0.75\\ 0.80\\ 0.55\\ 0.75\\ 0.80\\ 0.55\\ 0.00\\ 0.55\\ 0.75\\ 0.80\\ 0.00\\ 0.55\\ 0.00$	$\begin{array}{c} 450\\ 450\\ 450\\ 450\\ 450\\ 450\\ 450\\ 450\\$

### Note

(1) 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 RoHS handling, 2000/reel, EIA-481
- Printed marking
- Compatible with vapor phase and infrared reflow soldering
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

## **ELECTRICAL SPECIFICATIONS**

Inductance range: 0.010 µH to 1000 µH

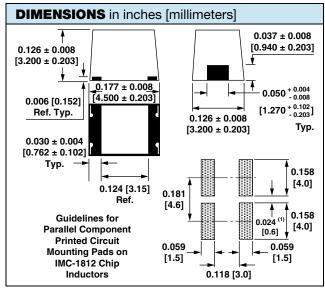
Special tolerances available upon request

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

<sup>(2)</sup> Recommended minimum spacing between components

## PART MARKING

- Vishay Dale
- Inductance value
- Date code

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VISHAY.	IMC-1812
www.vishay.com	Vishay Dale
DESCRIPTION	

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

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



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