

Vishay Dale

# Wirewound, Surface-Mount, Molded, Shielded Inductors



STANDARD ELECTRICAL 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\\ 0.015\\ 0.018\\ 0.022\\ 0.027\\ 0.033\\ 0.039\\ 0.047\\ 0.056\\ 0.068\\ 0.082\\ 0.10\\ 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\\ 2.2\\ 2.7\\ 3.3\\ 3.9\\ 4.7\\ 5.6\\ 6.8\\ 8.2\\ 10.0\\ 12.0\\ 15.0\\ 18.0\\ 22.0\\ 27.0\\ 33.0\\ 39.0\\ 47.0\\ 56.0\\ 68.0\\ 82.0\\ 100 \\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ $	$ \begin{array}{l} \pm \pm$	$\begin{array}{c} 50\\ 50\\ 50\\ 50\\ 50\\ 50\\ 50\\ 50\\ 50\\ 50\\$	$\begin{array}{c} 50\\ 50\\ 50\\ 50\\ 45\\ 45\\ 40\\ 40\\ 40\\ 40\\ 40\\ 40\\ 40\\ 40\\ 40\\ 40$	$\begin{array}{c} 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 1000\\ 310\\ 280\\ 220\\ 200\\ 180\\ 230\\ 220\\ 200\\ 180\\ 120\\ 110\\ 90.0\\ 85.0\\ 60.0\\ 65.0\\ 60.0\\ 65.0\\ 60.0\\ 52.0\\ 30.0\\ 24.0\\ 20.0\\ 17.0\\ 0\\ 35.0\\ 30.0\\ 24.0\\ 20.0\\ 17.0\\ 11.0\\ 11.0\\ 11.5\\ 14.5\\ 14.0\\ 11.5\\ 11.5\\ 11.0\\ 11.5\\ 1$	0.10 0.11 0.12 0.13 0.15 0.17 0.28 0.26 0.28 0.35 0.45 0.20 0.00 1.10 1.20 2.500 2.710 3.300 5.100 10.00 10.00 11.00 12.0	$\begin{array}{c} 810\\ 750\\ 690\\ 640\\ 610\\ 585\\ 530\\ 495\\ 485\\ 475\\ 460\\ 630\\ 600\\ 585\\ 500\\ 475\\ 460\\ 455\\ 450\\ 455\\ 450\\ 455\\ 320\\ 270\\ 250\\ 210\\ 255\\ 185\\ 155\\ 155\\ 125\\ 115\\ 105\\ 990\\ 85\end{array}$

Note

### **FEATURES**

- · Molded construction provides superior strength and moisture resistance
- Tape and reel packaging for automatic handling, 2000/reel, EIA-481
- · Compatible with vapor phase, infrared, and wave soldering methods
- Shielded construction minimizes coupling to other components
- · Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

#### **ELECTRICAL SPECIFICATIONS**

Inductance range: 0.01 µH to 100 µH

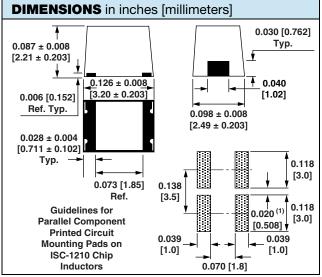
Special tolerances available upon request

Operating temperature: -55 °C to +125 °C

Coilform material: non-magnetic for 0.01 µH to 0.10 µH;; powdered iron for 0.12 µH to 100 µH

#### **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

Recommended minimum spacing between components

100.0 ± 10 % 0.796 30 6.0 12.0 PART MARKING 80 Vishay Dale Inductance code Rated DC current based on the maximum temperature rise, not to exceed 40 °C at +85 °C ambient Date code DESCRIPTION ISC-1210 10 µH ± 10 % ER e3 MODEL INDUCTANCE VALUE INDUCTANCE TOLERANCE PACKAGE CODE JEDEC<sup>®</sup> LEAD (Pb)-FREE STANDARD **GLOBAL PART NUMBER** L s С 1 2 1 0 Е R 1 0 0 Κ INDUCTANCE PRODUCT SIZE PACKAGE TOL FAMILY CODE VALUE Revision: 10-Sep-2019 Document Number: 34060 1

RoHS COMPLIANT HALOGEN FREE

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For technical questions, contact: magnetics@vishay.com



Vishay

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