Vishay Dale



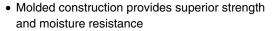
Surface Mount, Wirewound, Molded Inductors



STA	STANDARD ELECTRICAL SPECIFICATIONS							
IND. (µH)	TOL.	Q MIN.	TEST FREQ. L & Q (MHz)	SELF- RESONANT FREQ. MIN. (MHz)	DCR MAX. (Ω)	RATED* DC CURRENT (mA)		
0.010 0.012 0.018 0.022 0.027 0.033 0.039 0.047 0.056 0.068 0.082	±20% ±20% ±20% ±20% ±20% ±20% ±20% ±20% ±20%	50 50 50 50 50 50 50 40 40 40	50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0	1000 1000 1000 1000 1000 1000 1000 900 800 700	0.20 0.20 0.20 0.20 0.20 0.30 0.30 0.35 0.35 0.40	450 450 450 450 450 450 450 450 450 450		
0.10 0.12 0.15 0.18 0.22 0.27 0.33 0.39 0.47 0.56 0.68 0.82	±20 % ±20 % ±20 % ±20 % ±20 % ±20 % ±20 % ±10 % ±10 %	30 30 30 30 30 30 30 30 30 30 30 30 30 3	25.2 25.2 25.2 25.2 25.2 25.2 25.2 25.2	760 650 600 500 400 350 350 250 220 190 170 150	0.30 0.30 0.35 0.40 0.45 0.55 0.70 0.80 1.20 1.40	450 450 450 450 450 450 450 430 380 355 285 270 250		
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% ±10% ±10% ±10% ±10% ±10% ±10% ±10% ±10% ±10%	50 50 50 50 50 50 50 50 50 50	7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96	100 80.0 70.0 60.0 55.0 45.0 40.0 35.0 33.0 27.0 25.0	0.50 0.55 0.60 0.65 0.70 0.75 0.80 0.90 1.00 1.10 1.20 1.40	450 430 410 390 380 370 355 330 315 300 285 270		
10.0 12.0 15.0 18.0 22.0 27.0 33.0 39.0 47.0 56.0 68.0 82.0	±10% ±10% ±10% ±10% ±10% ±10% ±10% ±10% ±10% ±10%	50 50 50 50 50 50 50 50 50 50 50	2.52 2.52 2.52 2.52 2.52 2.52 2.52 2.52	20.0 18.0 17.0 15.0 13.0 11.0 11.0 10.0 9.0 8.0	1.60 2.00 2.50 2.80 3.20 3.60 4.00 4.50 5.50 6.00 7.00	250 225 200 190 180 170 160 150 140 135 130		
100.0 120.0 150.0 180.0 220.0 270.0 330.0 390.0 470.0 560.0 680.0 820.0	±10% ±10% ±10% ±10% ±10% ±10% ±10% ±10% ±10% ±10% ±10%	40 40 40 40 40 40 40 40 30 30 30 30	0.79 0.79 0.79 0.79 0.79 0.79 0.79 0.79	8.0 6.0 5.0 4.0 4.0 3.5 3.0 3.0 3.0 2.5	8.00 8.00 9.00 9.50 10.0 12.0 14.0 16.0 26.0 30.0 35.0 40.0	110 110 105 102 100 92 85 80 62 50 50 30		

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

FEATURES





 Tape and reel packaging for automatic handling, 2000/reel, EIA 481 RoHS COMPLIANT

- Printed marking
- Compatible with vapor phase and infrared reflow soldering
- Compliant to RoHS directive 2002/95/EC

ELECTRICAL SPECIFICATIONS

Inductance Range: $0.010 \mu H$ to $1000 \mu H$

Inductance Tolerance: \pm 20 % for 0.010 μH to 0.39 μH

 \pm 10 % for 0.47 μ H to 1000 μ H standard

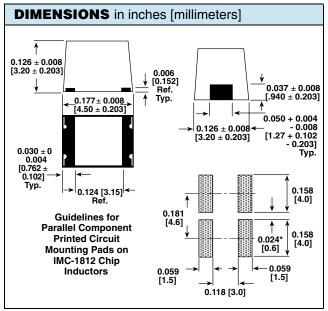
 \pm 10 %, \pm 5 %, \pm 3 % available

Temperature Range: - 55 °C to + 125 °C

Coilform Material: Non-magnetic for 0.010 μH to 0.82 μH Powdered iron for 1.0 μH to 120 μH . Ferrite for 150 μH to 1000 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



^{*} Recommended minimum spacing between components

PART MARKING

- Vishay Dale
- Inductance value
- Date code

Document Number: 34044 Revision: 01-Jul-09





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ORDERING INFORMATION								
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	E R PACKAGE CODE	1 0 0 INDUCTANCE VALUE	K TOL.					





Vishay

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