

www.vishay.com

Wirewound, Surface-Mount, Molded Inductors





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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 0.568 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 1.0 12.0 12.0 12.0 12.0 15.0 18.0 10.0 10.0 10.0 10.0 10.0 10.0 10	# 20 % #	50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 25.2	50 50 50 50 50 50 50 50 50 50 50 50 50 5	1000 1000 1000 1000 1000 1000 1000 100	0.20 0.20 0.20 0.20 0.20 0.30 0.30 0.30	450 450 450 450 450 450 450 450

Note

Revision: 10-Sep-2019

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 <u>www.vishay.com/doc?99912</u>

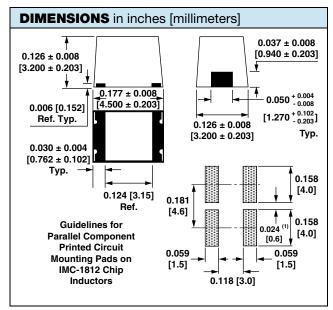
ELECTRICAL SPECIFICATIONS

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 μ H to 0.82 μ H; powdered iron for 1.0 μ H to 120 μ H; ferrite for 150 μ H to 1000 μ 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



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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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Vishay

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