



Wirewound, Surface Mount, Molded Inductors





STAI	ANDARD ELECTRICAL SPECIFICATIONS							
IND. (µH)	TOL.	TEST FREQ. (MHz) L & Q	Q MIN.	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA) ⁽¹⁾		
	TOL. ± 20 % ± 10 %	(MHz)		MIN.	MAX.	CURRENT		
6.8 8.2 10.0 12.0 15.0 18.0 22.0 27.0 33.0 47.0 68.0 82.0 120.0 150.0 150.0 150.0 150.0 470.0 560.0 820.0 470.0 680.0 820.0	± 10 % ± 10 %	7.96 7.96 2.52 2.52 2.52 2.52 2.52 2.52 2.52 2.5	50 50 50 50 50 50 50 50 50 40 40 40 40 40 40 30 30 30	27.0 25.0 18.0 17.0 15.0 11.0 11.0 9.0 9.0 8.0 8.0 6.0 5.0 4.0 3.5 3.0 3.0 3.0 3.0 2.5 2.5	1.20 1.40 2.00 2.50 2.80 3.60 4.00 4.50 5.50 6.00 7.00 8.00 9.50 10.0 12.0 14.0 26.0 30.0 35.0 40.0	285 270 250 225 200 190 180 170 160 150 140 135 130 110 110 105 102 100 92 85 80 62 50 30 30		

Note

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
- Compliant to RoHS Directive 2002/95/EC

ELECTRICAL SPECIFICATIONS

Inductance Range: 0.010 µH to 1000 µH

Inductance Tolerance: \pm 20 % for 0.010 μ H to 0.39 μ H

 \pm 10 % for 0.47 μH to 1000 μH standard

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

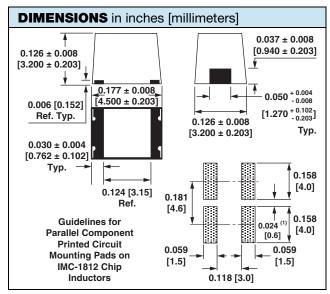
Operating Temperature: - 55 °C to + 125 °C

Coilform Material: Non-magnetic for 0.010 µH to 0.82 µH

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

(2) Recommended minimum spacing between components

PART MARKING

- Vishay Dale
- Inductance value
- Date code

⁽¹⁾ Rated DC current based on the maximum temperature rise, not to exceed 40 °C at + 85 °C ambient

IMC-1812

Vishay Dale

Wirewound, Surface Mount, Molded Inductors



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

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





Vishay

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