

Vishay Dale

RoHS

COMPLIANT

HALOGEN FREE

Wirewound, Surface Mount, Molded, Shielded Inductors



STAN	IDARD	ELEC.	TRIC	AL SPE	ECIFIC	CATIONS	
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 0.015 0.018 0.022 0.027 0.033 0.039 0.047 0.056 0.068 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 15.0 15.0 15.0 15.0 15.0 15.0 15	± 20 % ± 10 % ± 20 % ± 10 %	50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 45 45 40 40 40 40 40 40 40 40 40 40 40 40 40	1000 1000 1000 1000 1000 1000 1000 100	0.10 0.11 0.12 0.13 0.15 0.17 0.18 0.26 0.28 0.35 0.45 0.50 0.20 0.24 0.30 0.33 0.36 0.40 0.46 0.46 0.45 0.65 0.75 0.85 0.85 0.75 0.85	810 750 720 690 640 610 585 530 485 485 475 460 450 630 630 630 475 460 455 450 450 455 450 450 270 270 270 210 205 195 115 115 115 110 110 110 110 110 110 11	

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 methodsfio
- Shielded construction minimizes coupling to other components
- Compliant to RoHS Directive 2002/95/EC
- Halogen-free according to IEC 61249-2-21 definition

ELECTRICAL SPECIFICATIONS

Inductance Range: 0.01 µH to 100 µH

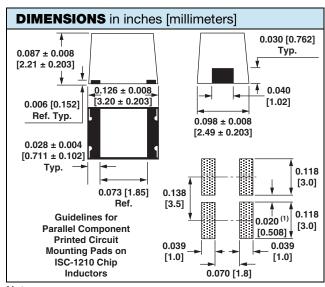
Inductance Tolerance: \pm 20 % for 0.01 μ H to 0.82 μ H; \pm 10 % for 1.0 μ H to 100 μ H standard; \pm 5 %, \pm 3 % available

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



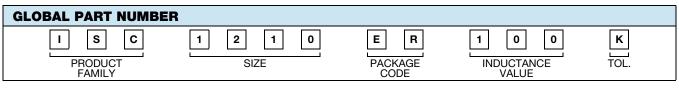
Note

(1) Recommended minimum spacing between components

PART MARKING

- Vishay Dale
- Inductance value
- Date code

DESCRIPTION								
ISC-1210	10 μH	± 10 %	ER	e3				
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD				



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



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Vishay

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Material Category Policy

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.

Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.