RoHS

COMPLIANT

HALOGEN

FREE



Wirewound, Surface Mount, Molded, Shielded Inductors



IND. (μH) TOL. EST FREQ. (MHz) TOL. E Q MIN. (MHz) (Ω) (MHz) (MHz) (Ω) (MHz) (MHz) (Ω) (MHz) (MHz) (Ω) (MHz) (MHz) (Ω) (MHz) (MHz) (Ω) (MHz) (MHz) (Ω) (MHz) (MHz) (Ω) (MHz) (MHz) (Ω) (MHz) (MHz) (Ω) (MHz) (MHz) (Ω) (MHz) (MHz) (Ω) (MHz) (MHz) (Ω) (MHz) (MHz) (Ω) (MHz) (MHz) (Ω) (MHz)	STANDARD ELECTRICAL SPECIFICATIONS							
0.012 ±20 % 50 50 1000 0.11 750 0.018 ±20 % 50 50 1000 0.12 720 0.018 ±20 % 50 50 1000 0.13 690 0.022 ±20 % 50 45 1000 0.15 640 0.027 ±20 % 50 45 1000 0.17 610 0.033 ±20 % 50 40 1000 0.24 530 0.047 ±20 % 50 40 1000 0.24 530 0.056 ±20 % 50 40 1000 0.26 495 0.056 ±20 % 50 40 1000 0.28 485 0.082 ±20 % 50 38 900 0.45 460 0.10 ±20 % 25.2 40 470 0.20 630 0.12 ±20 % 25.2 40 470 0.20 600 <	IND.		TEST FREQ. (MHz)	Q	SRF MIN.	DCR MAX.	RATED DC CURRENT	
	0.012 0.015 0.015 0.022 0.027 0.033 0.039 0.047 0.056 0.068 0.082 0.10 0.12 0.27 0.33 0.39 0.47 0.56 0.68 0.82 1.0 1.5 1.8 2.2 2.7 3.3 3.9 4.7 5.6 6.8 8.2 10.0 12.0 12.0 12.0 12.0 13.0 12.0 12.0 13.0 13.0 14.0 15.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16	± 20 % ± 20 % ½ ± 20 ½ ± 20 ½ ± 20 ½ ± 20 ½ ± 20 ½ ± 20 ½ ± 20 ½ ± 20 ½ ± 20 ½ ± 20 ½ ± 20 ½ ± 20 ½ ± 10 <td< td=""><td>50 50 50 50 50 50 50 50 50 50</td><td>50 50 50 50 50 50 50 50 50 50 50 50 50 5</td><td>1000 1000 1000 1000 1000 1000 1000 100</td><td>0.11 0.12 0.13 0.15 0.17 0.18 0.24 0.28 0.35 0.45 0.20 0.20 0.24 0.30 0.33 0.36 0.40 0.44 0.48 0.50 0.65 0.75 0.85 0.90 1.00 1.20 1.25 1.40 1.65 2.30 2.30 2.31 1.60 1.65 2.70 3.31 3.31 3.31 3.31 3.31 3.31 3.31 3.3</td><td>750 720 690 640 610 585 530 485 475 460 600 580 565 565 450 450 450 450 450 220 210 250 220 210 125 115 115 115 110 90 85</td></td<>	50 50 50 50 50 50 50 50 50 50	50 50 50 50 50 50 50 50 50 50 50 50 50 5	1000 1000 1000 1000 1000 1000 1000 100	0.11 0.12 0.13 0.15 0.17 0.18 0.24 0.28 0.35 0.45 0.20 0.20 0.24 0.30 0.33 0.36 0.40 0.44 0.48 0.50 0.65 0.75 0.85 0.90 1.00 1.20 1.25 1.40 1.65 2.30 2.30 2.31 1.60 1.65 2.70 3.31 3.31 3.31 3.31 3.31 3.31 3.31 3.3	750 720 690 640 610 585 530 485 475 460 600 580 565 565 450 450 450 450 450 220 210 250 220 210 125 115 115 115 110 90 85	

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
- Compatible with vapor phase, infrared and wave soldering methodsfio
- Shielded construction minimizes coupling to other components
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

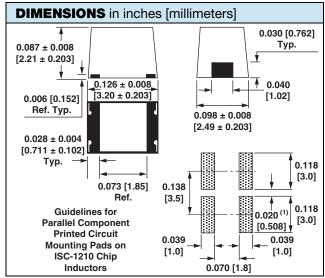
ELECTRICAL SPECIFICATIONS

Inductance range: $0.01~\mu H$ to $100~\mu H$ Special tolerances available upon request Operating temperature: -55 °C to +125 °C

Coilform material: Non-magnetic for 0.01 μH to 0.10 $\mu H;$ 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



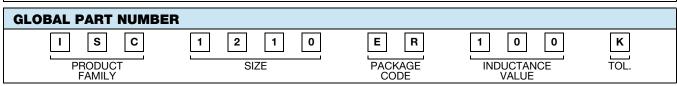
Note

(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				



Revision: 02-Jun-15 1 Document Number: 34060



Legal Disclaimer Notice

Vishay

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