

# Wirewound, Surface-Mount, Molded, Shielded Inductors

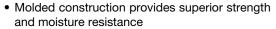




STAP	STANDARD ELECTRICAL SPECIFICATIONS								
IND. (µH)	TOL.	TEST FREQ. (MHz) L & Q	Q MIN.	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA) <sup>(1)</sup>			
0.10 0.12 0.15 0.18 0.22 0.33 0.39 0.47 0.56 0.68 0.82 1.0 1.2 1.5 1.8 2.2 2.7 3.3 3.9 4.7 5.6 6.8 8.2 10.0 12.0 15.0 18.0 22.0 27.0 33.0 39.0 47.0 56.0 68.0 82.0 10.0	± 20 % ± 10 % 6 % 6 % 6 % 6 % 6 % 6 % 6 % 6	L & Q 25.2 25.2 25.2 25.2 25.2 25.2 25.2 25.	30 30 30 30 30 30 30 30 30 30 30 30 30 3	460 400 390 350 310 280 240 215 205 195 165 155 140 120 90.0 80.0 67.0 61.0 56.0 50.0 40.0 32.0 32.0 32.0 32.0 15.0 12.0 13.0 14.0 12.0 13.0 14.0 15.0 15.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16	(Ω)  0.23 0.26 0.29 0.32 0.36 0.40 0.45 0.60 0.75 0.80 0.95 1.20 0.35 0.38 0.40 0.43 0.46 0.49 0.55 0.59 0.62 0.69 0.75 0.82 0.90 1.10 1.24 1.36 1.72 1.89 2.10 2.34 2.60 2.86 3.25 3.64 4.16 5.72 6.30 6.90 7.54 8.20 9.20	552 519 491 468 441 418 394 342 306 296 271 242 447 429 418 403 390 378 357 344 336 333 306 292 279 265 252 238 227 212 202 192 183 173 164 156 147 139 130 111 105 101 96 92			
470.0 560.0 680.0 820.0 1000.0	± 10 % ± 10 % ± 10 % ± 10 % ± 10 %	0.796 0.796 0.796 0.796 0.252	40 30 40 30 30	3.3 2.8 2.6 2.2 2.0	9.20 10.50 12.00 13.50 16.00	87 82 76 72 66			

#### Note

#### **FEATURES**





 Tape and reel packaging for automatic handling, 2000/reel, EIA-481 ROHS COMPLIANT HALOGEN

FREE

- Compatible with vapor phase and infrared reflow soldering
- soldering
- Shielded construction minimizes coupling to other components
- Material categorization: for definitions of compliance please see <a href="https://www.vishay.com/doc?99912">www.vishay.com/doc?99912</a>

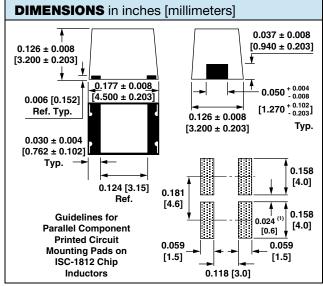
#### **ELECTRICAL SPECIFICATIONS**

Inductance range:  $0.10~\mu H$  to  $1000~\mu H$  Special tolerances available upon request Operating temperature:  $-55~^{\circ}C$  to  $+125~^{\circ}C$ 

Coilform material: non-magnetic for 0.10  $\mu H$  to 0.82  $\mu H$ ; powdered iron for 1.0  $\mu H$  to 22  $\mu H$ ; ferrite for 27  $\mu H$  to 1000  $\mu H$ 

#### **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



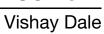
#### Note

(1) Recommended minimum spacing between components

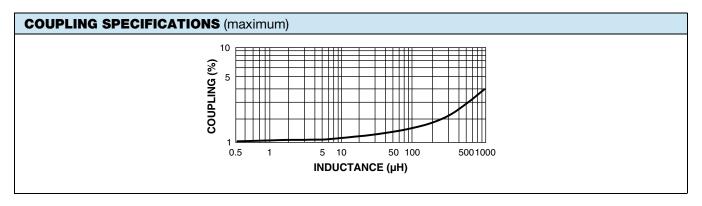
#### **PART MARKING**

- Vishay Dale
- Inductance code
- Date code

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







DESCRIPTION								
ISC-1812	10 μΗ	± 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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