

Wirewound, Surface Mount, Molded, Shielded Inductors

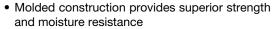




STAI	STANDARD ELECTRICAL SPECIFICATIONS						
IND. (μΗ)	TOL.	TEST FREQ. (MHz) L & Q	Q MIN.	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA) (1)	
0.10	± 20 %	25.2	30	460	0.23	552	
0.12	± 20 %	25.2	30	400	0.26	519 401	
0.15 0.18	± 20 % ± 20 %	25.2 25.2	30 30	390 350	0.29 0.32	491 468	
0.22	± 20 %	25.2	30	310	0.36	441	
0.33	± 20 %	25.2	30	280	0.40	418	
0.39	± 20 %	25.2	30	240	0.45	394	
0.47	± 20 %	25.2	30	215	0.60	342	
0.56	± 20 %	25.2 25.2	30 30	205 195	0.75	306 296	
0.68 0.82	± 20 % ± 20 %	25.2	30	165	0.80 0.95	290	
0.8	± 20 %	25.2	30	155	1.20	242	
1.0	± 10 %	7.96	30	140	0.35	447	
1.2	± 10 %	7.96	30	120	0.38	429	
1.5	± 10 %	7.96	30	100	0.40	418	
1.8 2.2	± 10 % ± 10 %	7.96 7.96	30 30	90.0 80.0	0.43 0.46	403 390	
2.7	± 10 %	7.96	30	67.0	0.46	378	
3.3	± 10 %	7.96	30	61.0	0.55	357	
3.9	± 10 %	7.96	30	56.0	0.59	344	
4.7	± 10 %	7.96	30	50.0	0.62	336	
5.6	± 10 %	7.96	30	40.0	0.69	333	
6.8 8.2	± 10 % ± 10 %	7.96 7.96	30 30	32.0 30.0	0.75 0.82	306 292	
10.0	± 10 %	2.52	50	25.0	0.82	279	
12.0	± 10 %	2.52	50	22.0	1.00	265	
15.0	± 10 %	2.52	50	18.0	1.10	252	
18.0	± 10 %	2.52	50	15.0	1.24	238	
22.0	± 10 %	2.52	50	14.0	1.36	227	
27.0 33.0	± 10 % ± 10 %	2.52 2.52	40 40	13.0 12.0	1.56 1.72	212 202	
39.0	± 10 %	2.52	40	11.0	1.89	192	
47.0	± 10 %	2.52	40	9.0	2.10	183	
56.0	± 10 %	2.52	40	8.0	2.34	173	
68.0	± 10 %	2.52	40	7.6	2.60	164	
82.0 100.0	± 10 % ± 10 %	2.52 0.796	40 40	7.2 7.0	2.86 3.25	156 147	
120.0	± 10 % ± 10 %	0.796	40	6.0	3.64	139	
150.0	± 10 %	0.796	40	5.0	4.16	130	
180.0	± 10 %	0.796	40	4.5	5.72	111	
220.0	± 10 %	0.796	40	4.2	6.30	105	
270.0	± 10 %	0.796	40	4.0	6.90	101	
330.0	± 10 % ± 10 %	0.796	40	3.7 3.5	7.54	96 92	
390.0 470.0	± 10 % ± 10 %	0.796 0.796	40 40	3.5	8.20 9.20	92 87	
560.0	± 10 %	0.796	30	2.8	10.50	82	
680.0	± 10 %	0.796	40	2.6	12.00	76	
820.0	± 10 %	0.796	30	2.2	13.50	72	
1000.0	± 10 %	0.252	30	2.0	16.00	66	

Note

FEATURES





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

RoHS COMPLIANT

· Compatible with vapor phase and infrared reflow soldering

- **HALOGEN** FREE
- Shielded construction minimizes coupling to other components
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

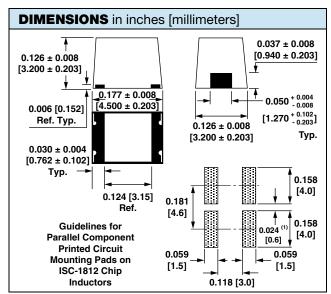
ELECTRICAL SPECIFICATIONS

Inductance range: 0.10 µH to 1000 µH Special tolerances available upon request Operating temperature: -55 °C to +125 °C

Coilform material: Non-magnetic for 0.10 µH to 0.82 µH Powdered iron for 1.0 µH to 22 µH Ferrite for 27 µH to 1000 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

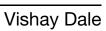


(1) Recommended minimum spacing between components

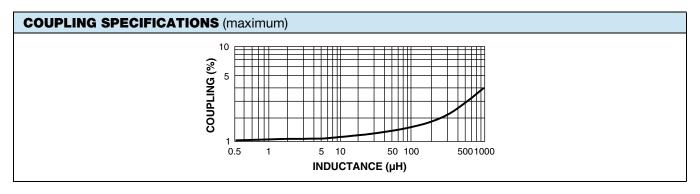
PART MARKING

- Vishay Dale
- Inductance value
- Date code

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		e 3				
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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