

Wirewound, Surface Mount, Molded, Shielded Inductors

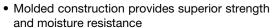




STAI	STANDARD ELECTRICAL SPECIFICATIONS							
IND. (μH)	TOL.	TEST FREQ. (MHz)	Q MIN.	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA) ⁽¹⁾		
0.10	± 20 %	25.2	30	460	0.23	552		
0.12	± 20 %	25.2	30	400	0.26	519		
0.15	± 20 %	25.2	30	390	0.29	491 468		
0.18 0.22	± 20 % ± 20 %	25.2 25.2	30 30	350 310	0.32 0.36	466 441		
0.22	± 20 %	25.2 25.2	30	280	0.30	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	30	205	0.75	306		
0.68	± 20 %	25.2	30	195	0.80	296		
0.82	± 20 %	25.2	30	165	0.95	271		
0.8	± 20 %	25.2	30	155	1.20	242		
1.0 1.2	± 10 % ± 10 %	7.96 7.96	30 30	140 120	0.35 0.38	447 429		
1.5	± 10 %	7.96 7.96	30	100	0.36	418		
1.8	± 10 %	7.96	30	90.0	0.43	403		
2.2	± 10 %	7.96	30	80.0	0.46	390		
2.7	± 10 %	7.96	30	67.0	0.49	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 7.96	30	40.0	0.69 0.75	333 306		
6.8 8.2	± 10 % ± 10 %	7.96 7.96	30 30	32.0 30.0	0.75	292		
10.0	± 10 %	2.52	50	25.0	0.90	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	± 10 %	2.52	50	13.0	1.56	212		
33.0 39.0	± 10 % ± 10 %	2.52 2.52	50 50	12.0 11.0	1.72 1.89	202 192		
47.0	± 10 %	2.52	50	9.0	2.10	183		
56.0	± 10 %	2.52	50	8.0	2.34	173		
68.0	± 10 %	2.52	50	7.6	2.60	164		
82.0	± 10 %	2.52	50	7.2	2.86	156		
100.0	± 10 %	0.796	40	7.0	3.25	147		
120.0	± 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 0.796	40 40	4.5 4.2	5.72 6.30	111		
220.0 270.0	± 10 % ± 10 %	0.796	40 40	4.2	6.90	105 101		
330.0	± 10 %	0.796	40	3.7	7.54	96		
390.0	± 10 %	0.796	40	3.5	8.20	92		
470.0	± 10 %	0.796	40	3.3	9.20	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 66		
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 HALOGEN

FREE

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

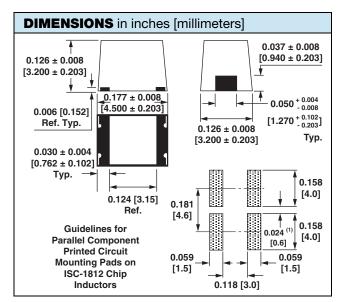
ELECTRICAL SPECIFICATIONS

Inductance range: $0.10~\mu H$ to $1000~\mu H$ 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



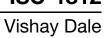
Note

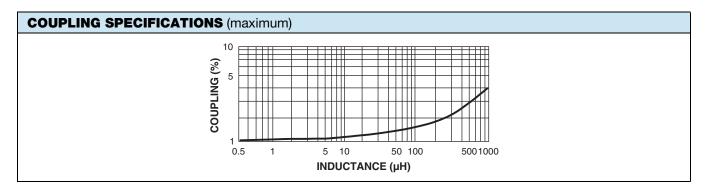
(1) Recommended minimum spacing between components

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





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	TOL.			



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Vishay

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