

Vishay Dale

Monolithic Chip Inductors



MECHANICAL SPECIFICATIONS

Solderability: 90 % coverage after 5 s dip in 235 °C solder following 60 s preheat at 120 °C to 150 °C and type R flux dip **Resistance to Solder Heat:** 10 s in 260 °C solder, after

preheat and flux per above **Termination:** 100 % Sn

Terminal Strength: 0.6 kg for 30 s

Beam Strength: 1.0 kg

FEATURES

- High reliability
- Surface mountable
- Magnetically self shielded
- Nickel barrier plating virtually eliminates silver migration
- Compliant to RoHS Directive 2002/95/EC
- Halogen-free according to IEC 61249-2-21 definition



ROHS

HALOGEN FREE

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature: - 55 °C to + 125 °C

Thermal Shock: - 40 °C to + 85 °C

Humidity: 90 % RH at 40 °C, 1000 h at full rated current

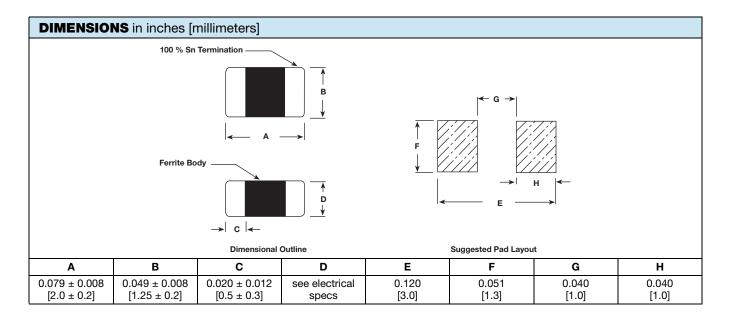
Load Life: 85 °C for 1000 h at full rated current

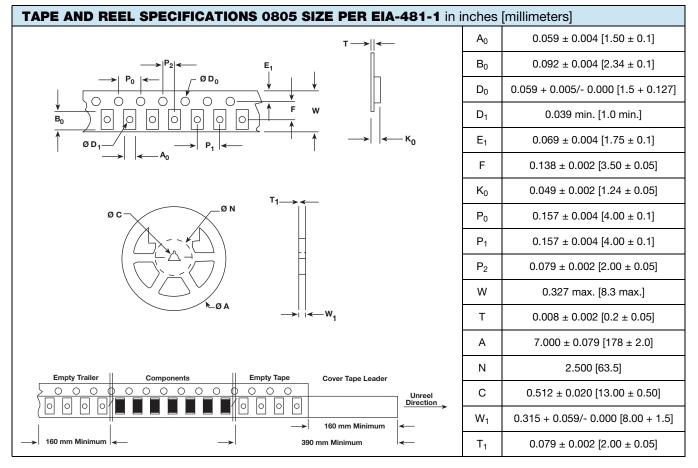
STANDARD ELECTRICAL SPECIFICATIONS										
IND. AT ± 10 %	T 01	THICKNESS "D"	TEST FREQ. (MHz)	Q	SRF MIN.	DCR MAX.	RATED DC CURRENT			
(μH)	TOL.	(INCHES [mm])	L&Q	MIN.	(MHz)	(Ω)	(mA)			
0.047	20 %	$0.035 \pm 0.008 [0.90 \pm 0.2]$	50	15	320	0.20	300			
0.056	20 %	$0.035 \pm 0.008 [0.90 \pm 0.2]$	50	15	300	0.20	300			
0.068	20 %	$0.035 \pm 0.008 [0.90 \pm 0.2]$	50	15	280	0.20	300			
0.082	20 %	$0.035 \pm 0.008 [0.90 \pm 0.2]$	50	15	255	0.20	300			
0.10	10 %	$0.035 \pm 0.008 [0.90 \pm 0.2]$	25	20	279	0.30	250			
0.12	10 %	$0.035 \pm 0.008 [0.90 \pm 0.2]$	25	20	253	0.30	250			
0.15	10 %	$0.035 \pm 0.008 [0.90 \pm 0.2]$	25	20	230	0.40	250			
0.18	10 %	$0.035 \pm 0.008 [0.90 \pm 0.2]$	25	20	213	0.40	250			
0.22	10 %	$0.035 \pm 0.008 [0.90 \pm 0.2]$	25	20	196	0.50	250			
0.27	10 %	$0.035 \pm 0.008 [0.90 \pm 0.2]$	25	20	173	0.50	250			
0.33	10 %	$0.035 \pm 0.008 [0.90 \pm 0.2]$	25	20	167	0.55	250			
0.39	10 %	$0.035 \pm 0.008 \ [0.90 \pm 0.2]$	25	25	156	0.65	200			
0.47	10 %	$0.035 \pm 0.008 [0.90 \pm 0.2]$	25	25	144	0.65	200			
0.56	10 %	$0.035 \pm 0.008 \ [0.90 \pm 0.2]$	25	25	133	0.75	150			
0.68	10 %	0.035 ± 0.008 0.90 ± 0.2	25	25	121	0.80	150			
0.82	10 %	$0.035 \pm 0.008 \ 0.90 \pm 0.2$	25	25	115	1.00	150			
1.0	10 %	$0.035 \pm 0.008 [0.90 \pm 0.2]$	10	45	87	0.40	50			
1.2	10 %	$0.035 \pm 0.008 \ 0.90 \pm 0.2$	10	45	75	0.50	50			
1.5	10 %	$0.035 \pm 0.008 [0.90 \pm 0.2]$	10	45	69	0.50	50			
1.8	10 %	$0.035 \pm 0.008 [0.90 \pm 0.2]$	10	45	64	0.60	50			
2.2	10 %	$0.035 \pm 0.008 [0.90 \pm 0.2]$	10	45	58	0.65	30			
2.7	10 %	$0.049 \pm 0.008 [1.25 \pm 0.2]$	10	45	52	0.75	30			
3.3	10 %	$0.049 \pm 0.008 [1.25 \pm 0.2]$	10	45	48	0.80	30			
3.9	10 %	$0.049 \pm 0.008 [1.25 \pm 0.2]$	10	45	44	0.90	30			
4.7	10 %	$0.049 \pm 0.008 [1.25 \pm 0.2]$	10	45	41	1.00	30			
5.6	10 %	$0.049 \pm 0.008 [1.25 \pm 0.2]$	4	45	37	0.90	15			
6.8	10 %	$0.049 \pm 0.008 [1.25 \pm 0.2]$	4	45	34	1.00	15			
8.2	10 %	$0.049 \pm 0.008 [1.25 \pm 0.2]$	1	45	30	1.10	15			
10	10 %	$0.049 \pm 0.008 [1.25 \pm 0.2]$	2	50	28	1.15	15			
12	10 %	$0.049 \pm 0.008 [1.25 \pm 0.2]$ $0.049 \pm 0.008 [1.25 \pm 0.2]$	4 2 2	50	26	1.15	15			
15	10 %	$0.049 \pm 0.008 [1.25 \pm 0.2]$ $0.049 \pm 0.008 [1.25 \pm 0.2]$	1	30	22	0.80				
18	10 %	$0.049 \pm 0.008 [1.25 \pm 0.2]$ $0.049 \pm 0.008 [1.25 \pm 0.2]$		30	21	0.80	5			
22	10 %			30	19	1.10	2			
22 27	10 %	$0.049 \pm 0.008 [1.25 \pm 0.2]$		30	17	1.10	5			
33	10 %	$0.049 \pm 0.008 [1.25 \pm 0.2]$ $0.049 \pm 0.008 [1.25 \pm 0.2]$	0.4	30	17	1.15	5 5 5 5 5			

DESCRIPTION											
ILSB-0805	3.3 µH	± 10 %	ER	e3							
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FRE	EE STANDARD						
GLOBAL PART NUMBER											
I L PRODUC	S B 0	8 0 5 SIZE	PACKAGE CODE	R 3 INDUCTANCE VALUE	TOL.						

Monolithic Chip Inductors









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Vishay

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