



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
- Material categorization: for definitions of compliance please www.vishay.com/doc?99912



ROHS COMPLIANT

HALOGEN FREE

ENVIRONMENTAL SPECIFICATIONS

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

Thermal Shock: -40 °C to +85 °C

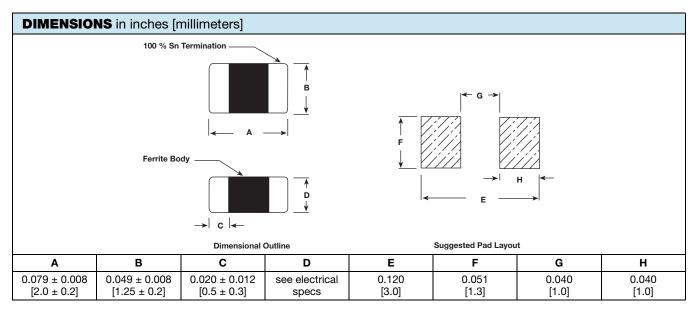
Humidity: 90 % RH at 40 °C, 1000 h at full rated current

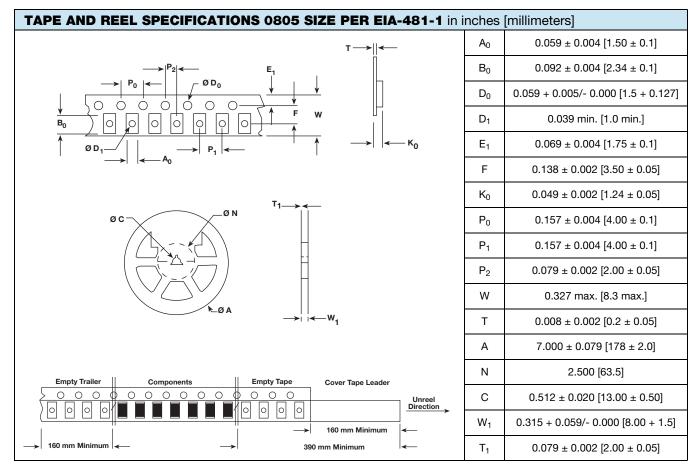
Load Life: 85 °C for 1000 h at full rated current

INDUCTANCE		THICKNESS "D"	TEST FREQ. (MHz)	Q	SRF MIN.	DCR MAX.	RATED DC CURRENT
(μH)	TOL.	(INCHES [mm])	L AND 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 ± 0.008 0.90 ± 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 25	20	213	0.40	250
0.22	10 %	0.035 ± 0.008 0.90 ± 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 ± 0.008 $[0.90 \pm 0.2]$	25	20	167	0.55	250
0.39	10 %	$0.035 \pm 0.008 \ 0.90 \pm 0.21$	25	25	156	0.65	200
0.47	10 %	$0.035 \pm 0.008 \ 0.90 \pm 0.21$	25	25	144	0.65	200
0.56	10 %	$0.035 \pm 0.008 \ 0.90 \pm 0.21$	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 %	$0.035 \pm 0.008 \ 0.90 \pm 0.21$	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 %	$0.035 \pm 0.008 \ 0.90 \pm 0.21$	10	45	64	0.60	50
2.2	10 %	0.035 ± 0.008 0.90 ± 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 ± 0.008 [1.25 ± 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 ± 0.008 [1.25 ± 0.2]	4	45	34	1.00	15
8.2	10 %	$0.049 \pm 0.008 [1.25 \pm 0.2]$	4	45	30	1.10	15
10	10 %	$0.049 \pm 0.008 [1.25 \pm 0.2]$	4 2 2 1	50	28	1.15	15
12	10 %	0.049 ± 0.008 [1.25 ± 0.2]	2	50	26	1.25	15
15	10 %	$0.049 \pm 0.008 [1.25 \pm 0.2]$		30	22	0.80	
18	10 %	$0.049 \pm 0.008 [1.25 \pm 0.2]$	1	30	21	0.90	5
22	10 %	$0.049 \pm 0.008 [1.25 \pm 0.2]$	1	30	19	1.10	5
27	10 %	$0.049 \pm 0.008 [1.25 \pm 0.2]$	1	30	17	1.15	5 5 5 5
33	10 %	0.049 ± 0.008 [1.25 ± 0.2]	0.4	30	13	1.25	5

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









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