



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: 0.1 kg for 30 s

Beam Strength: 2.5 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



COMPLIAN

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

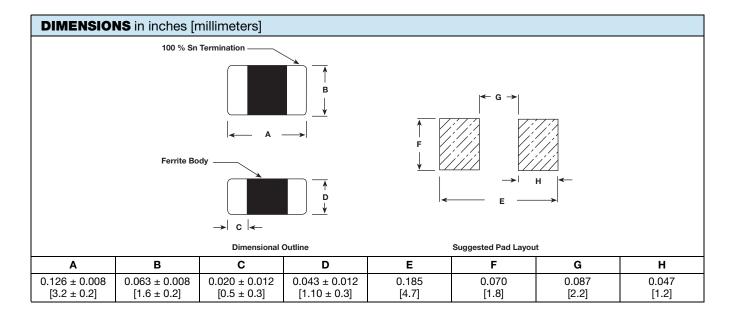
Load Life: 85 °C for 1000 h at full rated current

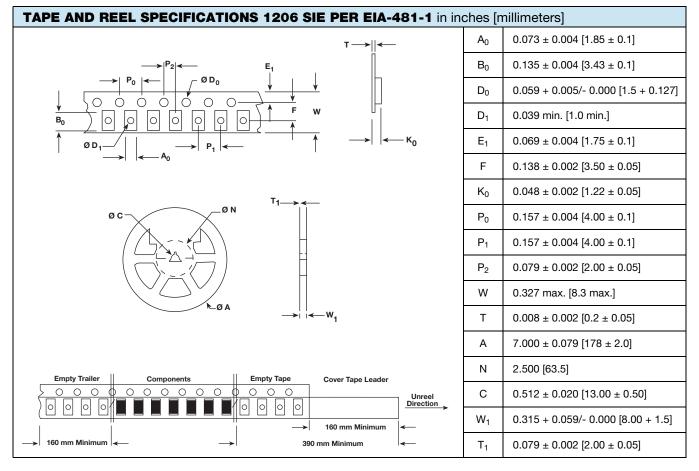
STANDARD ELECTRICAL SPECIFICATIONS									
IND. AT ± 10 %		THICKNESS "D"	TEST FREQ. (MHz)	Q	SRF MIN.	DCR MAX.	RATED DC CURRENT		
(μH)	TOL.	(INCHES [mm])	L & Q	MIN.	(MHz)	(Ω)	(mA)		
0.047	20 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	50	20	368	0.15	300		
0.068	20 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	50	20	322	0.25	300		
0.10	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	25	20	271	0.25	250		
0.12	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	25	20	253	0.30	250		
0.15	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	25	20	230	0.30	250		
0.18	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	25	20	213	0.40	250		
0.22	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	25	20	196	0.40	250		
0.27	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	25	20	173	0.50	250		
0.33	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	25	20	167	0.60	250		
0.39	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	25	25	156	0.50	200		
0.47	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	25	25	144	0.60	200		
0.68	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	25	25	121	0.80	150		
1.0	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	10	45	87	0.40	100		
1.2	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	10	45	75	0.50	100		
1.5	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	10	45	69	0.50	50		
1.8	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	10	45	64	0.50	50		
2.2	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	10	45	58	0.50	50		
3.3	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	10	45	48	0.70	50		
3.9	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	10	45	44	0.80	50		
4.7	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	10	45	41	0.90	50		
5.6	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	4	45	37	0.70	25		
6.8	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	4	45	34	0.80	25		
8.2	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	4	45	30	0.90	25		
10	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$		45	28	1.00	25		
12	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	2 2	45	26	1.05	15		
15	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	1	45	22	0.70	5		
18	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	1	45	21	0.70	5		
22	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	1	35	19	0.90	5		
27	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	1	35	17	0.90	5		
33	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	1	35	15	1.05	5		

DESCRIPTION										
ILSB-1206 MODEL	3.3 μH INDUCTANCE VALUE	± 10 % INDUCTANCE TOLERANCE	ER PACKAGE CODE	e3 JEDEC LEAD (Pb)-FREE STANDARD						
GLOBAL PART NUMBER										
PRODUC	S B 1	2 0 6 SIZE	PACKAGE CODE	3 R 3 K INDUCTANCE TOL. VALUE						

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Vishay

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