



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

DESCRIPTION ILSB-1206

3.3 µH

FEATURES

- High reliability
- Surface mountable
- · Magnetically self shielded

Nickel barrier plating virtually eliminates silver migration

 Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>



COMPLIANT HALOGEN

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature: -55 $^{\circ}\text{C}$ to +125 $^{\circ}\text{C}$

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											
INDUCTANCE (µH)	TOL.	THICKNESS "D" (INCHES [mm])	TEST FREQ. (MHz) L AND Q	Q MIN.	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA)				
0.047	20 %	0.043 ± 0.012 [1.10 ± 0.3]	50	20	368	0.15	300				
0.068	20 %	0.043 ± 0.012 [1.10 ± 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 ± 0.012 [1.10 ± 0.3]	25	20	230	0.30	250				
0.18	10 %	$0.043 \pm 0.012 [1.10 \pm 0.0]$ $0.043 \pm 0.012 [1.10 \pm 0.3]$	25	20	213	0.40	250				
0.22	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$ $0.043 \pm 0.012 [1.10 \pm 0.3]$	25	20	196	0.40	250				
0.27	10 %	0.043 ± 0.012 [1.10 ± 0.3]	25	20	173	0.50	250				
0.33	10 %	0.043 ± 0.012 [1.10 ± 0.3]	25	20	167	0.60	250				
0.39	10 %	0.043 ± 0.012 [1.10 ± 0.3]	25	25	156	0.50	200				
0.47	10 %	0.043 ± 0.012 [1.10 ± 0.3]	25	25	144	0.60	200				
0.68	10 %	0.043 ± 0.012 [1.10 ± 0.3]	25	25	121	0.80	150				
1.0	10 %	0.043 ± 0.012 [1.10 ± 0.0] 0.043 ± 0.012 [1.10 ± 0.3]	10	45	87	0.40	100				
1.2	10 %	0.043 ± 0.012 [1.10 ± 0.3]	10	45	75	0.50	100				
1.5	10 %	0.043 ± 0.012 [1.10 ± 0.3]	10	45	69	0.50	50				
1.8	10 %	0.043 ± 0.012 [1.10 ± 0.3] 0.043 ± 0.012 [1.10 ± 0.3]	10	45	64	0.50	50 50				
2.2	10 %	0.043 ± 0.012 [1.10 ± 0.3]	10	45	58	0.50	50				
3.3	10 %	0.043 ± 0.012 [1.10 ± 0.3] 0.043 ± 0.012 [1.10 ± 0.3]	10	45	48	0.30	50 50				
3.9	10 %	0.043 ± 0.012 [1.10 ± 0.3] 0.043 ± 0.012 [1.10 ± 0.3]	10	45	44	0.70	50 50				
4.7	10 %	0.043 ± 0.012 [1.10 ± 0.3] 0.043 ± 0.012 [1.10 ± 0.3]	10	45	41	0.80	50 50				
4.7 5.6	10 %	0.043 ± 0.012 [1.10 ± 0.3] 0.043 ± 0.012 [1.10 ± 0.3]	4	45	37	0.90	25				
6.8	10 %	0.043 ± 0.012 [1.10 ± 0.3] 0.043 ± 0.012 [1.10 ± 0.3]	4	45	34	0.70	25 25				
8.2	10 %	0.043 ± 0.012 [1.10 ± 0.3] 0.043 ± 0.012 [1.10 ± 0.3]	4	45	30	0.80	25 25				
6.2 10	10 %	0.043 ± 0.012 [1.10 ± 0.3] 0.043 ± 0.012 [1.10 ± 0.3]	2	45 45	28	1.00	25 25				
10	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$ $0.043 \pm 0.012 [1.10 \pm 0.3]$	2	45 45	26 26	1.00	25 15				
12 15	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$ $0.043 \pm 0.012 [1.10 \pm 0.3]$	4	45 45	20	0.70					
15 18	10 %	0.043 ± 0.012 [1.10 ± 0.3] 0.043 ± 0.012 [1.10 ± 0.3]		45 45	22	0.70	5 5 5				
22	10 %	0.043 ± 0.012 [1.10 ± 0.3] 0.043 ± 0.012 [1.10 ± 0.3]		35	19	0.70	5				
22 27	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$ $0.043 \pm 0.012 [1.10 \pm 0.3]$		35	19	0.90	5				
33	10 %			35	17	1.05	5 5				
ుు	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	l I	ან	15	1.05	J				

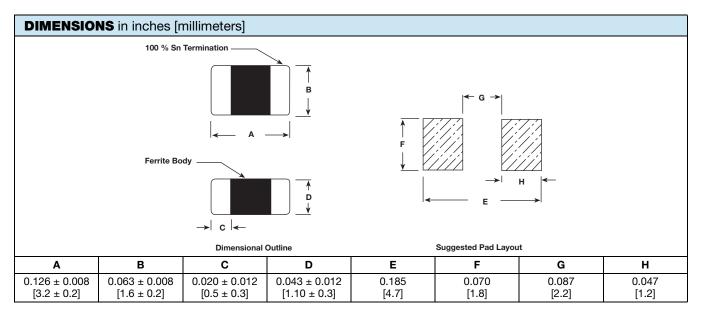
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FF	REE STANDARD
GLOBAL PART	T NUMBER				
PRODUC	S B 1	2 0 6 SIZE	PACKAGE CODE	3 R 3 INDUCTANCE VALUE	TOL.

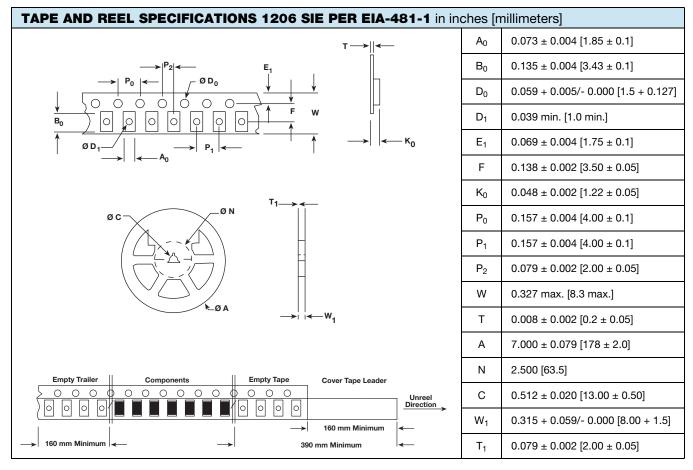
ER

± 10 %











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