

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: 0.1 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

HALOGEN FREE

compliance please see www.vishay.com/doc?99912

#### **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											
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 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	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 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	2	45	28	1.00	25				
12	10 %	$0.043 \pm 0.012 [1.10 \pm 0.3]$	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				

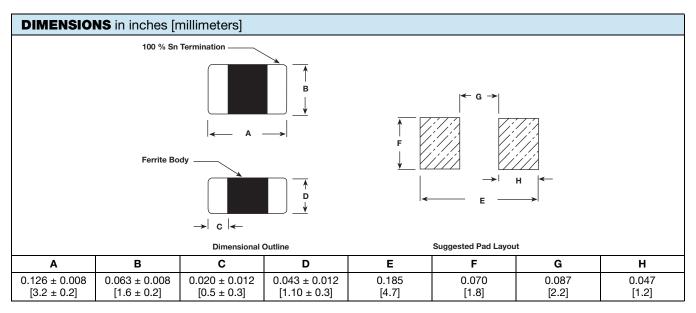
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FF	REE STANDARD
GLOBAL PART	NUMBER				
PRODUC	S B 1	2 0 6 SIZE	PACKAGE CODE	3 R 3 INDUCTANCE VALUE	TOL.

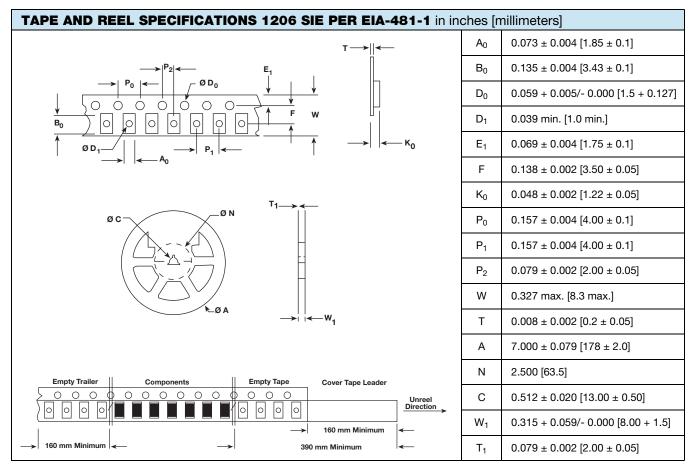
ER

е3

± 10 %









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Vishay

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