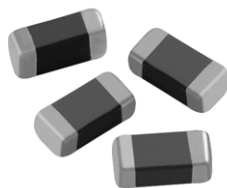


Monolithic Chip Inductors



MECHANICAL SPECIFICATIONS

Solderability: 90 % coverage after 5 second dip in 235 °C solder following 60 second preheat at 120 °C to 150 °C and type R flux dip
Resistance To Solder Heat: 10 seconds in 260 °C solder after preheat and flux per above
Termination: 100 % Sn

FEATURES

- High reliability
- Surface mountable
- Magnetically self shielded
- Nickel barrier plating virtually eliminates silver migration
- 100 % lead (Pb)-free and RoHS compliant



RoHS
COMPLIANT

Terminal Strength: 0.1 kg for 30 seconds

Beam Strength: 2.5 kg

ENVIRONMENTAL SPECIFICATIONS

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

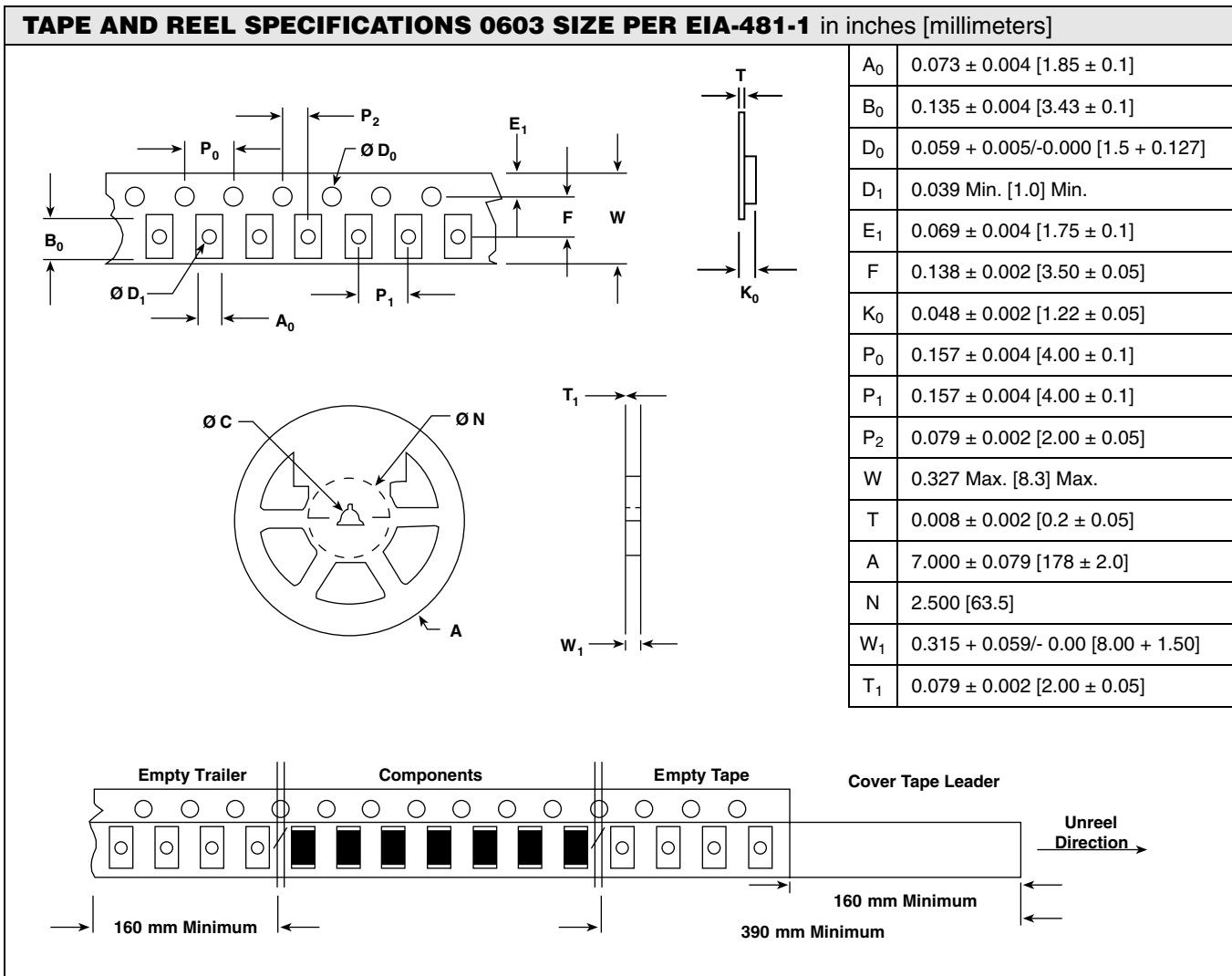
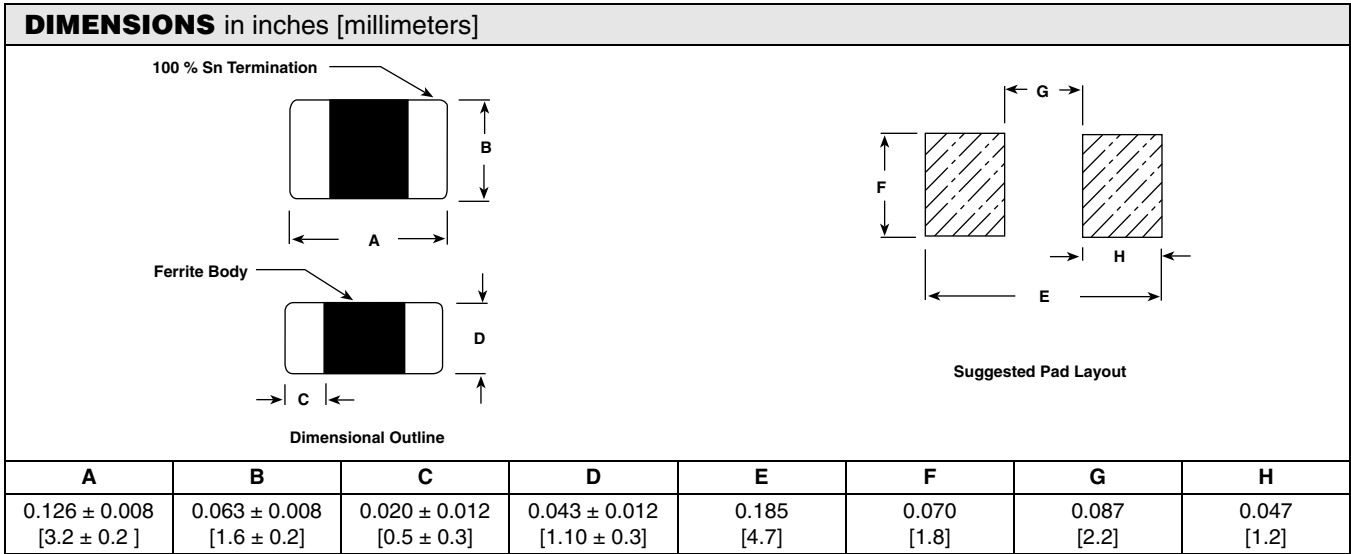
Thermal Shock: - 40 °C to + 85 °C

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

Load Life: 85 °C for 1000 hours full rated current

STANDARD ELECTRICAL SPECIFICATIONS							
INDUCTANCE (μ H) $\pm 10\%$	TOLERANCE	THICKNESS "D" Inches [mm]	Q (Min.)	TEST FREQUENCY L & Q (MHz)	MIN. SELF-RESONANT FREQUENCY (MHz)	MAXIMUM DCR (Ohms)	RATED DC CURRENT (mA)
0.047	$\pm 20\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	20	50	368	0.15	300
0.068	$\pm 20\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	20	50	322	0.25	300
0.10	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	20	25	271	0.25	250
0.12	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	20	25	253	0.30	250
0.15	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	20	25	230	0.30	250
0.18	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	20	25	213	0.40	250
0.22	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	20	25	196	0.40	250
0.27	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	20	25	173	0.50	250
0.33	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	20	25	167	0.60	250
0.39	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	25	25	156	0.50	200
0.47	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	25	25	144	0.60	200
0.56	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	25	25	133	0.70	150
0.68	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	25	25	121	0.80	150
0.82	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	25	25	115	0.90	150
1.0	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	45	10	87	0.40	100
1.2	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	45	10	75	0.50	100
1.5	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	45	10	69	0.50	50
1.8	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	45	10	64	0.50	50
2.2	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	45	10	58	0.50	50
2.7	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	45	10	52	0.60	50
3.3	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	45	10	48	0.70	50
3.9	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	45	10	44	0.80	50
4.7	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	45	10	41	0.90	50
5.6	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	45	4	37	0.70	25
6.8	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	45	4	34	0.80	25
8.2	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	45	4	30	0.90	25
10.0	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	45	2	28	1.00	25
12.0	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	45	2	26	1.05	15
15.0	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	45	1	22	0.70	5
18.0	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	45	1	21	0.70	5
22.0	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	35	1	19	0.90	5
27.0	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	35	1	17	0.90	5
33.0	$\pm 10\%$	0.043 \pm 0.012 [1.10 \pm 0.3]	35	1	15	1.05	5

DESCRIPTION				
ILSB-1206 MODEL	3.3 μ H INDUCTANCE VALUE	$\pm 10\%$ INDUCTANCE TOLERANCE	ER PACKAGE CODE	e3 JEDEC LEAD (Pb)-FREE STANDARD
GLOBAL PART NUMBER				
I L S B	1 2 0 6	E R	3 R 3	K
MODEL	SIZE	PACKAGE CODE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE





Disclaimer

All product specifications and data are subject to change without notice.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.