



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

- 3.2 mm x 1.6 mm x 0.5 mm size
- 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>



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

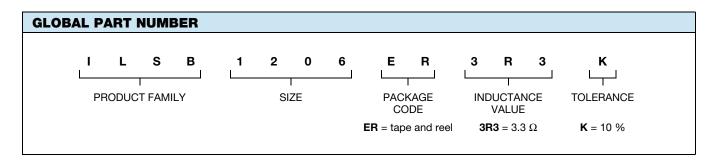
Load Life: 85 °C for 1000 h at full rated current

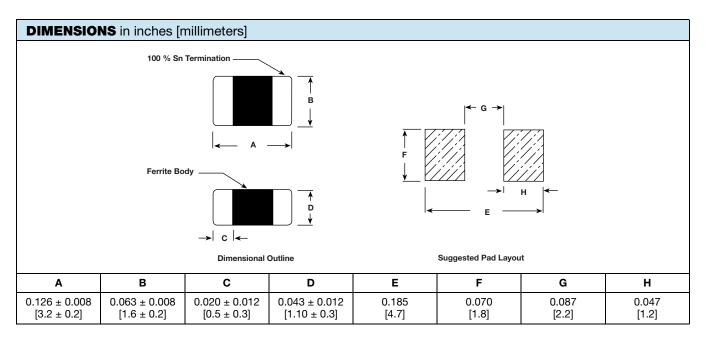
STANDARD ELECTRICAL SPECIFICATIONS							
	INDUCTANCE	TOL.	TEST FREQ. (MHz)	Q	SRF MIN.	DCR MAX.	RATED DC CURRENT
PART NUMBER	(μH)	(%)	L AND Q	MĬN.	(MHz)	(Ω)	(mA)
ILSB1206ER47NM	0.047	20	50	20	368	0.15	300
ILSB1206ER68NM	0.068	20	50	20	322	0.25	300
ILSB1206ERR10K	0.10	10	25	20	271	0.25	250
ILSB1206ERR12K	0.12	10	25	20	253	0.30	250
ILSB1206ERR15K	0.15	10	25	20	230	0.30	250
ILSB1206ERR18K	0.18	10	25	20	213	0.40	250
ILSB1206ERR22K	0.22	10	25	20	196	0.40	250
ILSB1206ERR27K	0.27	10	25	20	173	0.50	250
ILSB1206ERR33K	0.33	10	25	20	167	0.60	250
ILSB1206ERR39K	0.39	10	25	25	156	0.50	200
ILSB1206ERR47K	0.47	10	25	25	144	0.60	200
ILSB1206ERR68K	0.68	10	25	25	121	0.80	150
ILSB1206ER1R0K	1.0	10	10	45	87	0.40	100
ILSB1206ER1R2K	1.2	10	10	45	75	0.50	100
ILSB1206ER1R5K	1.5	10	10	45	69	0.50	50
ILSB1206ER1R8K	1.8	10	10	45	64	0.50	50
ILSB1206ER2R2K	2.2	10	10	45	58	0.50	50
ILSB1206ER3R3K	3.3	10	10	45	48	0.70	50
ILSB1206ER3R9K	3.9	10	10	45	44	0.80	50
ILSB1206ER4R7K	4.7	10	10	45	41	0.90	50
ILSB1206ER5R6K	5.6	10	4	45	37	0.70	25
ILSB1206ER6R8K	6.8	10	4	45	34	0.80	25
ILSB1206ER8R2K	8.2	10	4	45	30	0.90	25
ILSB1206ER100K	10	10	2	45	28	1.00	25
ILSB1206ER120K	12	10	2	45	26	1.05	15
ILSB1206ER150K	15	10	1	45	22	0.70	5
ILSB1206ER180K	18	10	1	45	21	0.70	5
ILSB1206ER220K	22	10	1	35	19	0.90	5
ILSB1206ER270K	27	10	1	35	17	0.90	5
ILSB1206ER330K	33	10	1	35	15	1.05	5



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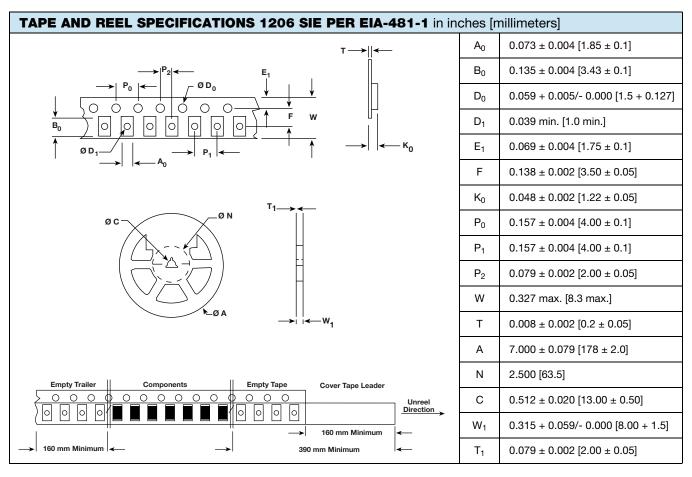
DESCRIPTIONILSB-12063.3 μH± 10 %ERe3MODELINDUCTANCE VALUEINDUCTANCE TOLERANCEPACKAGE CODEJEDEC® LEAD (Pb)-FREE STANDARD







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