

## 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:** 0.6 kg for 30 s

**Beam Strength:** 1.0 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



**RoHS**  
COMPLIANT  
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 % (µH)	TOL.	THICKNESS "D" (INCHES [mm])	TEST FREQ. (MHz)	Q MIN.	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA)
			L & Q				
0.047	20 %	0.035 ± 0.008 [0.90 ± 0.2]	50	15	320	0.20	300
0.056	20 %	0.035 ± 0.008 [0.90 ± 0.2]	50	15	300	0.20	300
0.068	20 %	0.035 ± 0.008 [0.90 ± 0.2]	50	15	280	0.20	300
0.082	20 %	0.035 ± 0.008 [0.90 ± 0.2]	50	15	255	0.20	300
0.10	10 %	0.035 ± 0.008 [0.90 ± 0.2]	25	20	279	0.30	250
0.12	10 %	0.035 ± 0.008 [0.90 ± 0.2]	25	20	253	0.30	250
0.15	10 %	0.035 ± 0.008 [0.90 ± 0.2]	25	20	230	0.40	250
0.18	10 %	0.035 ± 0.008 [0.90 ± 0.2]	25	20	213	0.40	250
0.22	10 %	0.035 ± 0.008 [0.90 ± 0.2]	25	20	196	0.50	250
0.27	10 %	0.035 ± 0.008 [0.90 ± 0.2]	25	20	173	0.50	250
0.33	10 %	0.035 ± 0.008 [0.90 ± 0.2]	25	20	167	0.55	250
0.39	10 %	0.035 ± 0.008 [0.90 ± 0.2]	25	25	156	0.65	200
0.47	10 %	0.035 ± 0.008 [0.90 ± 0.2]	25	25	144	0.65	200
0.56	10 %	0.035 ± 0.008 [0.90 ± 0.2]	25	25	133	0.75	150
0.68	10 %	0.035 ± 0.008 [0.90 ± 0.2]	25	25	121	0.80	150
0.82	10 %	0.035 ± 0.008 [0.90 ± 0.2]	25	25	115	1.00	150
1.0	10 %	0.035 ± 0.008 [0.90 ± 0.2]	10	45	87	0.40	50
1.2	10 %	0.035 ± 0.008 [0.90 ± 0.2]	10	45	75	0.50	50
1.5	10 %	0.035 ± 0.008 [0.90 ± 0.2]	10	45	69	0.50	50
1.8	10 %	0.035 ± 0.008 [0.90 ± 0.2]	10	45	64	0.60	50
2.2	10 %	0.035 ± 0.008 [0.90 ± 0.2]	10	45	58	0.65	30
2.7	10 %	0.049 ± 0.008 [1.25 ± 0.2]	10	45	52	0.75	30
3.3	10 %	0.049 ± 0.008 [1.25 ± 0.2]	10	45	48	0.80	30
3.9	10 %	0.049 ± 0.008 [1.25 ± 0.2]	10	45	44	0.90	30
4.7	10 %	0.049 ± 0.008 [1.25 ± 0.2]	10	45	41	1.00	30
5.6	10 %	0.049 ± 0.008 [1.25 ± 0.2]	4	45	37	0.90	15
6.8	10 %	0.049 ± 0.008 [1.25 ± 0.2]	4	45	34	1.00	15
8.2	10 %	0.049 ± 0.008 [1.25 ± 0.2]	4	45	30	1.10	15
10	10 %	0.049 ± 0.008 [1.25 ± 0.2]	2	50	28	1.15	15
12	10 %	0.049 ± 0.008 [1.25 ± 0.2]	2	50	26	1.25	15
15	10 %	0.049 ± 0.008 [1.25 ± 0.2]	1	30	22	0.80	5
18	10 %	0.049 ± 0.008 [1.25 ± 0.2]	1	30	21	0.90	5
22	10 %	0.049 ± 0.008 [1.25 ± 0.2]	1	30	19	1.10	5
27	10 %	0.049 ± 0.008 [1.25 ± 0.2]	1	30	17	1.15	5
33	10 %	0.049 ± 0.008 [1.25 ± 0.2]	0.4	30	13	1.25	5

### DESCRIPTION

ILSB-0805	3.3 µH	± 10 %	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

### GLOBAL PART NUMBER

I	L	S	B	0	8	0	5	E	R	3	R	3	K
PRODUCT FAMILY				SIZE				PACKAGE CODE		INDUCTANCE VALUE			TOL.





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