



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

HALOGEN FREE

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

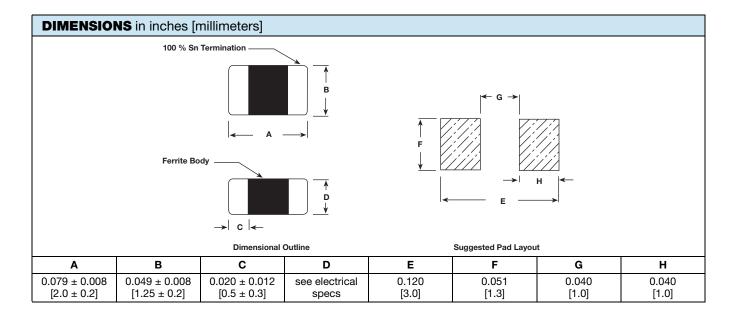
CTANDADD EL CODICAL ODDICIDADIONO											
STANDARD ELECTRICAL SPECIFICATIONS											
IND.			TEST FREQ.			DCR	RATED				
AT ± 10 %		THICKNESS "D"	(MHz)	Q	SRF MIN.	MAX.	DC CURRENT				
(µH)	TOL.	(INCHES [mm])	L & Q	MIN.	(MHz)	(Ω)	(mA)				
0.047	20 %	$0.035 \pm 0.008 [0.90 \pm 0.2]$	50	15	320	0.20	300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

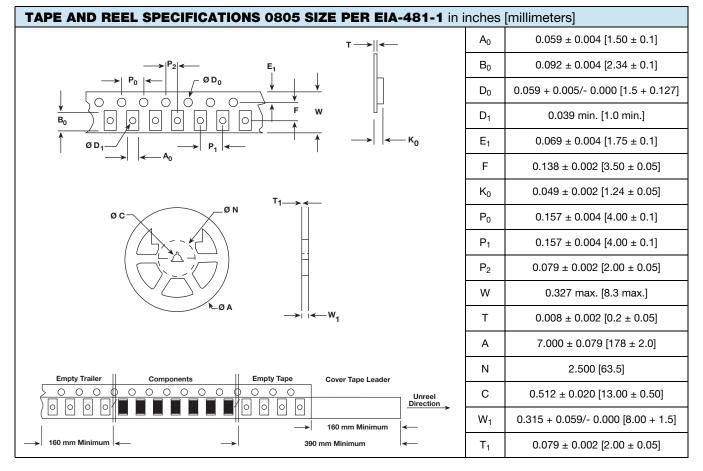
DESCRIPTION											
ILSB-0805	3.3 µH	± 10 %	ER	e3							
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FF	REE STANDARD						
GLOBAL PART NUMBER											
I L PRODU	S B 0	8 0 5 SIZE	PACKAGE CODE	3 R 3 INDUCTANCE VALUE	TOL.						

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