



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: 0.5 kg for 30 s

Beam Strength: 0.3 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

• Halogen-free according to IEC 61249-2-21 definition

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

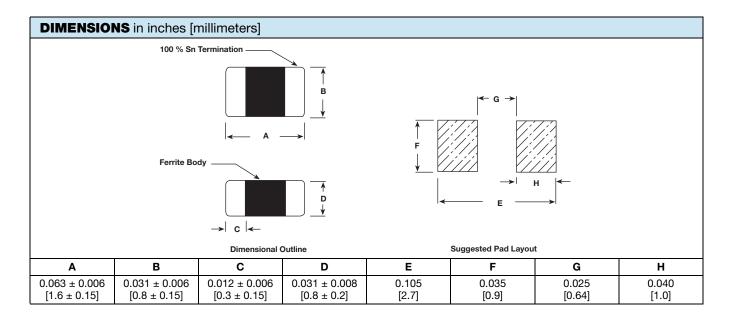
IND.			TEST FREQ.			DCR	RATED
AT ± 10 %		THICKNESS "D"	(MHz)	Q	SRF MIN.	MAX.	DC CURRENT
(μH)	TOL.	(INCHES [mm])	L & Q	MIN.	(MHz)	(Ω)	(mA)
0.047	20 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	50	10	260	0.15	50
0.068	20 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	50	10	250	0.25	50
0.082	20 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	50	10	245	0.25	50
0.10	10 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	25	15	276	0.50	50
0.12	10 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	25	15	236	0.50	50
0.15	10 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	25	15	207	0.60	50
0.18	10 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	25	15	190	0.60	50
0.22	10 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	25	15	173	0.80	50
0.27	10 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	25	15	157	0.80	50
0.33	10 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	25	15	144	0.85	35
0.39	10 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	25	15	127	1.00	35
0.47	10 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	25	15	121	1.35	35
0.56	10 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	25	15	110	1.55	35
0.68	10 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	25	15	104	1.70	35
0.82	10 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	25	15	98	2.10	35
1.0	10 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	10	35	87	0.60	25
1.2	10 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	10	35	74	0.80	25
1.5	10 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	10	35	69	0.80	25
1.8	10 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	10	35	64	0.95	25
2.2	10 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	10	35	58	1.15	15
2.7	10 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	10	35	52	1.35	15
3.3	10 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	10	35	46	1.55	15
3.9	10 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	10	35	41	1.70	15
4.7	10 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	10	35	38	2.10	15
5.6	10 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	4	30	22	1.55	15
6.8	10 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	4	30	20	1.70	15
8.2	10 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	4	30	18	2.10	15
10	10 %	$0.031 \pm 0.008 [0.80 \pm 0.2]$	2	30	17	2.55	15

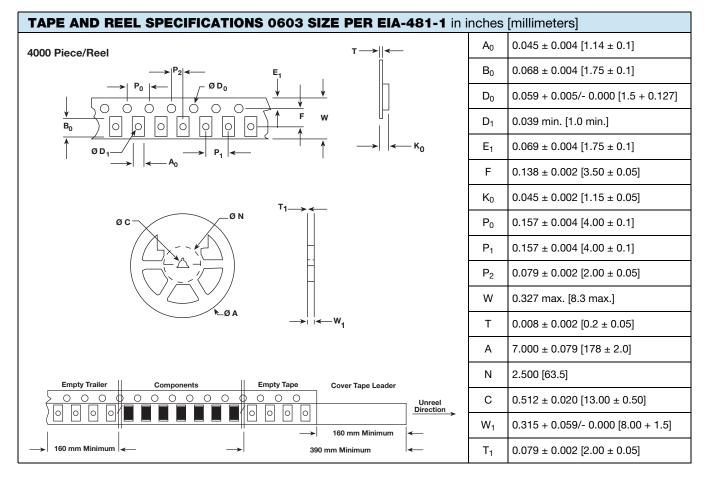
DESCRIPTION											
ILSB-0603	3.3 µH	± 10 %	ER	e3							
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FRI	EE STANDARD						
GLOBAL PART NUMBER											
I L	S B 0		E R	3 R 3	К						
PRODUCT FAMILY		SIZE	PACKAGE CODE	INDUCTANCE VALUE	TOL.						

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