



# **Monolithic Chip Inductors**



### **MECHANICAL SPECIFICATIONS**

**Solderability:** 90 % coverage after 5 s dip in 235  $^{\circ}$ C solder following 60 s preheat at 120  $^{\circ}$ C to 150  $^{\circ}$ C and type R flux dip **Resistance to Solder Heat:** 10 s in 260  $^{\circ}$ 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

 Material categorization: for definitions of compliance please see <a href="https://www.vishav.com/doc?99912">www.vishav.com/doc?99912</a>

# Pb-free

COMPLIANT HALOGEN

### **ENVIRONMENTAL SPECIFICATIONS**

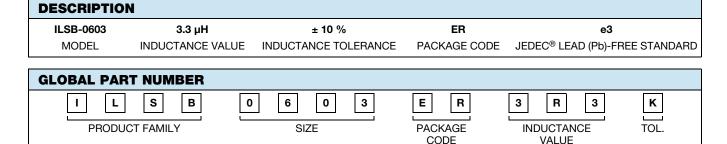
Operating Temperature: -55  $^{\circ}\text{C}$  to +125  $^{\circ}\text{C}$ 

Thermal Shock: -40 °C to +85 °C

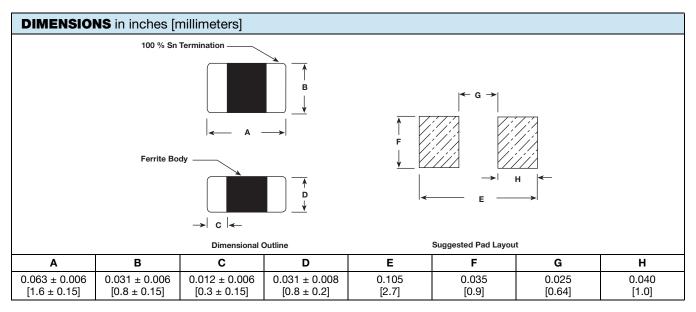
**Humidity:** 90 % RH at 40 °C, 1000 h at full rated current

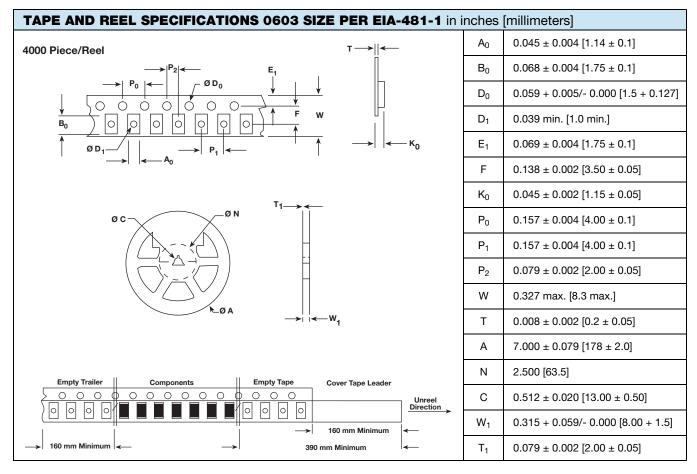
Load Life: 85 °C for 1000 h at full rated current

INDUCTANCE (µH)	TOL.	THICKNESS "D" (INCHES [mm])	TEST FREQ. (MHz) L AND Q	Q MIN.	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA)
0.047	20 %	0.031 ± 0.008 [0.80 ± 0.2]	50	10	260	0.15	50
0.068	20 %	0.031 ± 0.008 [0.80 ± 0.2]	50	10	250	0.25	50
0.082	20 %	0.031 ± 0.008 [0.80 ± 0.2]	50	10	245	0.25	50
0.10	10 %	0.031 ± 0.008 [0.80 ± 0.2]	25	15	276	0.50	50
0.12	10 %	0.031 ± 0.008 [0.80 ± 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











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