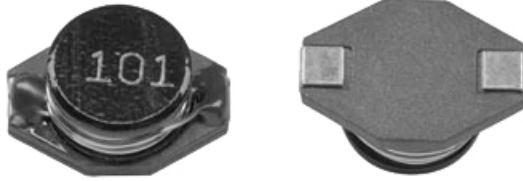


High Current, Surface Mount Inductors



ELECTRICAL SPECIFICATIONS

Inductance Range: 1.0 μH to 1000 μH , tested at 1.0 V_{RMS}
Inductance Tolerance: 20 %, tighter tolerance available upon request
Operating Temperature: - 40 °C to + 125 °C
Resistance to Solder Heat: 260 °C for 10 s

FEATURES

- High energy storage
- Low resistance
- Tape and reel packaging for automatic handling
- Compliant to RoHS Directive 2002/95/EC
- Halogen-free according to IEC 61249-2-21 definition



RoHS
 COMPLIANT
 HALOGEN
FREE

MECHANICAL SPECIFICATIONS

Core: Ferrite
Wire: Enamelled copper wire
Base: LCP
Terminals: Nickel bronze
Adhesive: Epoxy resin

STANDARD ELECTRICAL SPECIFICATIONS					
INDUCTANCE (μH)	TOLERANCE	TEST FREQUENCY L (kHz)	DCR MAX. (Ω)	I_{SAT} (A)	I_{RMS} (A)
1.0	$\pm 20 \%$	100	0.009	9.0	6.8
1.5	$\pm 20 \%$	100	0.010	8.0	6.4
2.2	$\pm 20 \%$	100	0.012	7.0	6.1
3.3	$\pm 20 \%$	100	0.015	6.4	5.4
4.7	$\pm 20 \%$	100	0.018	5.4	4.8
6.8	$\pm 20 \%$	100	0.027	4.6	4.4
10	$\pm 20 \%$	100	0.038	3.8	3.9
15	$\pm 20 \%$	100	0.046	3.0	3.1
22	$\pm 20 \%$	100	0.085	2.6	2.7
33	$\pm 20 \%$	100	0.10	2.0	2.1
47	$\pm 20 \%$	100	0.14	1.6	1.8
68	$\pm 20 \%$	100	0.20	1.4	1.5
100	$\pm 20 \%$	100	0.28	1.2	1.3
150	$\pm 20 \%$	100	0.40	1.0	1.0
220	$\pm 20 \%$	100	0.61	0.8	0.8
330	$\pm 20 \%$	100	1.02	0.6	0.6
470	$\pm 20 \%$	100	1.27	0.5	0.5
680	$\pm 20 \%$	100	2.02	0.4	0.4
1000	$\pm 20 \%$	100	3.00	0.3	0.3

Notes

- Inductance drop = 10 % typ. at I_{SAT}
- $\Delta T = 15 \text{ }^\circ\text{C}$ typ. at I_{RMS}

DIMENSIONS in inches [millimeters]									
A (Max.)	B (Max.)	D (Max.)	E	F	G	H	I	J	
0.510 [12.95]	0.370 [9.40]	0.205 [5.21]	0.100 [2.54]	0.100 [2.54]	0.300 [7.62]	0.115 [2.92]	0.290 [7.37]	0.110 [2.79]	

DESCRIPTION				
IDC-5020	10 μH	$\pm 20 \%$	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER				
I	D	C	5	0
PRODUCT FAMILY			2	0
			E	R
			PACKAGE CODE	
			1	0
			INDUCTANCE VALUE	
				M
				TOL



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