

High Current, Surface Mount Inductor



ELECTRICAL SPECIFICATIONS

Inductance Range: 1.0 H to 1000 μ H, tested at 1.0 Vrms

Inductance Tolerance: 20 %, tighter tolerances available upon request

Operating Temperature: - 40 °C to + 125 °C

Resistance to Solder Heat: 260 °C for 10 seconds

FEATURES

- High energy storage
- Low resistance
- Tape and reel packaging for automatic handling
- 100 % lead (Pb)-free and RoHS compliant



RoHS
COMPLIANT

MATERIALS

Core: Ferrite

Wire: Enamelled copper wire Base: LCP

Terminal: Nickel bronze

Adhesive: Epoxy resin

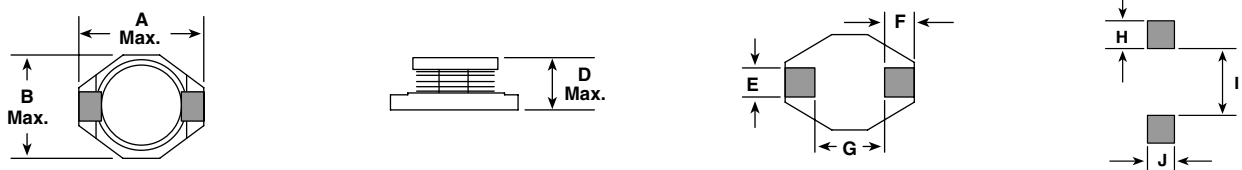
STANDARD ELECTRICAL SPECIFICATIONS

INDUCTANCE (μ H)	TOLERANCE	TEST FREQUENCY L (kHz)	DCR MAXIMUM (Ohms)	Isat (Amps)	Irms (Amps)
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

Inductance drop = 10 % typ. at Isat

Δ GT = 15°C typ. at Irms

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 MODEL	10 μH INDUCTANCE VALUE	$\pm 20 \%$ INDUCTANCE TOLERANCE	ER PACKAGE CODE	e3 JEDEC LEAD (Pb)-FREE STANDARD
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GLOBAL PART NUMBER

I D C	5 0 2 0	E R	1 0 0	M
PRODUCT FAMILY	SIZE	PACKAGE CODE	INDUCTANCE VALUE	TOL.



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