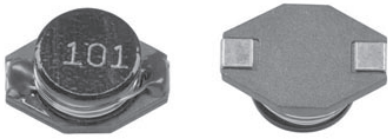


High Current, Surface Mount Inductor



ELECTRICAL SPECIFICATIONS

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

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.

MATERIALS

Core: Ferrite.

Wire: Enamelled copper wire.

Base: LCP.

Terminal: Nickel bronze.

Adhesive: Epoxy resin.

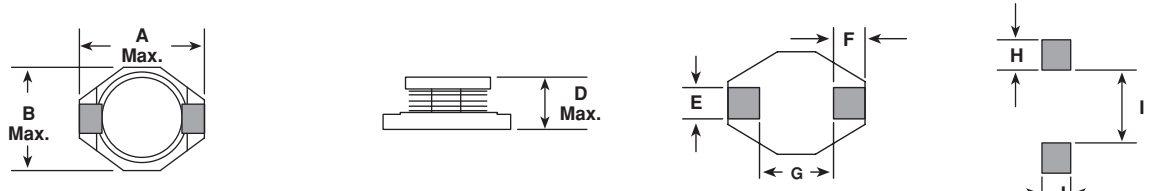
STANDARD ELECTRICAL SPECIFICATIONS

INDUCTANCE (μ H)	TOLERANCE	TEST FREQUENCY L (KHz)	DCR MAX. (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

$\Delta T = 15^\circ\text{C}$ 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	10 μ H	$\pm 20\%$
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE

SAP PART NUMBERING GUIDELINES (INTERNAL)

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

See the end of this data book for conversion tables