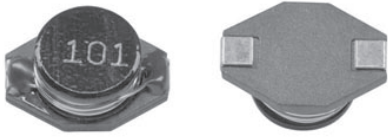


## High Current, Surface Mount Inductor



### FEATURES

- High energy storage.
- Low resistance.
- Tape and reel packaging for automatic handling.

### ELECTRICAL SPECIFICATIONS

**Inductance Range:** 1.0 $\mu$ H to 1000 $\mu$ 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.

### MATERIALS

**Core:** Ferrite.

**Wire:** Enamelled copper wire.

**Base:** LCP.

**Terminal:** Nickel bronze.

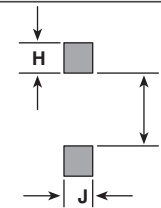
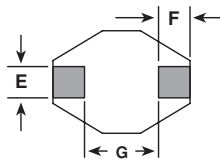
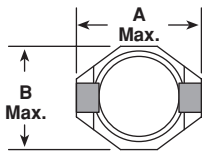
**Adhesive:** Epoxy resin.

### STANDARD ELECTRICAL SPECIFICATIONS

INDUCTANCE ( $\mu$ 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]

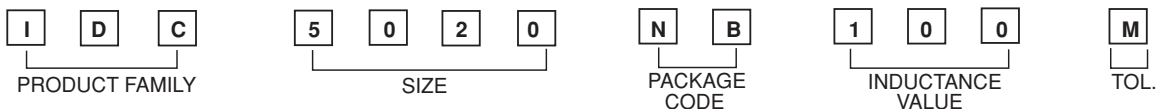


A (Max.)	B (Max.)	D (Max.)	E	F	G	H	I	J
0.510	0.370	0.205	0.100	0.100	0.300	0.115	0.290	0.110
[12.95]	[9.40]	[5.21]	[2.54]	[2.54]	[7.62]	[2.92]	[7.37]	[2.79]

### DESCRIPTION

IDC-5020	10 $\mu$ H	$\pm 20\%$
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE

### SAP PART NUMBERING GUIDELINES (INTERNAL)



See the end of this data book for conversion tables