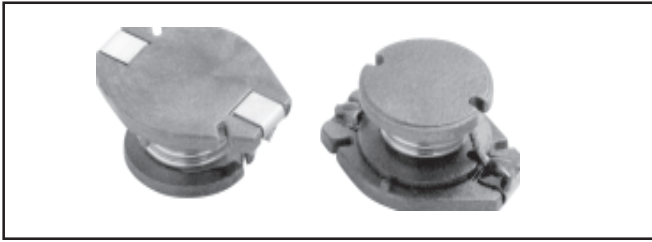


## Inductors

*High Current, Surface Mount*



### 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 0.1 Vrms.  
**Inductance Tolerance:** 20%.  
**Operating Temperature:** - 20°C to + 80°C.  
**Storage Temperature:** - 25°C to + 85°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

IND. ( $\mu$ H)	TOLERANCE	TEST FREQUENCY L (KHz)	DCR MAX. (Ohms)	SELF RESONANT FREQ. MIN. (MHz)	INCREMENTAL CURRENT (A)	RATED DC CURRENT* (A)
1.0	$\pm 20\%$	100	0.009	100	9.0	6.8
1.5	$\pm 20\%$	100	0.010	90	8.0	6.4
2.2	$\pm 20\%$	100	0.012	80	7.0	6.1
3.3	$\pm 20\%$	100	0.015	65	6.4	5.4
4.7	$\pm 20\%$	100	0.018	45	5.4	4.8
6.8	$\pm 20\%$	100	0.027	38	4.6	4.4
10	$\pm 20\%$	100	0.038	30	3.8	3.9
15	$\pm 20\%$	100	0.046	27	3.0	3.1
22	$\pm 20\%$	100	0.085	19	2.6	2.7
33	$\pm 20\%$	100	0.10	15	2.0	2.1
47	$\pm 20\%$	100	0.14	12	1.6	1.8
68	$\pm 20\%$	100	0.20	10	1.4	1.5
100	$\pm 20\%$	100	0.28	9	1.2	1.3
150	$\pm 20\%$	100	0.40	6	1.0	1.0
220	$\pm 20\%$	100	0.61	5	0.8	0.8
330	$\pm 20\%$	100	1.02	4.5	0.6	0.6
470	$\pm 20\%$	100	1.27	3.5	0.5	0.5
680	$\pm 20\%$	100	2.02	2.5	0.4	0.4
1000	$\pm 20\%$	100	3.00	2.0	0.3	0.3

\*40°C temperature rise.

### DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate 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]

### HOW TO ORDER

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