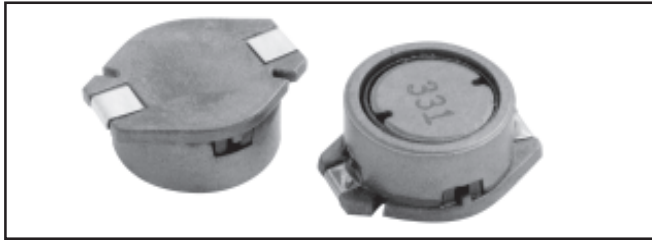


Inductors

High Current, Surface Mount



FEATURES

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

ELECTRICAL SPECIFICATIONS

Inductance Range: 1.0 μ H to 390 μ 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.

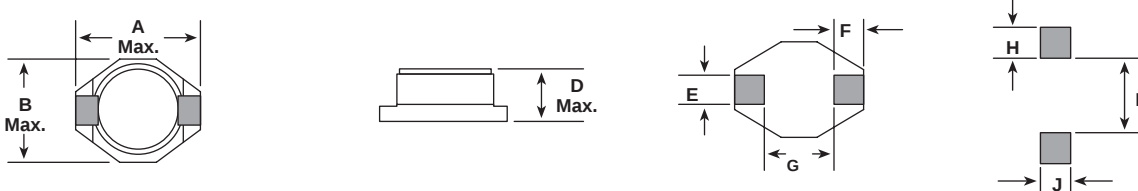
Adhesive: Epoxy resin.

STANDARD ELECTRICAL SPECIFICATIONS

IND. (μ H)	TOLERANCE	Q NOM.	TEST FREQUENCY L (KHz)	DCR MAX. (Ohms)	SELF- RESONATING FREQ. (MHz)	RATED DC CURRENT* (A)
1.0	$\pm$ 20%	25	100K	0.021	140.0	5.00
1.5	$\pm$ 20%	25	100K	0.022	120.0	4.50
2.2	$\pm$ 20%	25	100K	0.027	90.0	3.10
3.3	$\pm$ 20%	25	100K	0.030	80.0	2.90
4.7	$\pm$ 20%	25	100K	0.040	50.0	2.50
6.8	$\pm$ 20%	25	100K	0.055	32.0	2.20
10	$\pm$ 20%	25	100K	0.065	30.0	2.00
12	$\pm$ 20%	25	100K	0.080	25.0	1.80
15	$\pm$ 20%	25	100K	0.085	20.0	1.70
18	$\pm$ 20%	25	100K	0.090	19.0	1.60
22	$\pm$ 20%	25	100K	0.100	18.0	1.40
27	$\pm$ 20%	25	100K	0.120	17.0	1.30
33	$\pm$ 20%	25	100K	0.160	15.0	1.20
39	$\pm$ 20%	25	100K	0.180	13.0	1.05
47	$\pm$ 20%	25	100K	0.180	12.0	1.00
56	$\pm$ 20%	25	100K	0.210	11.0	0.90
68	$\pm$ 20%	25	100K	0.340	9.0	0.82
82	$\pm$ 20%	25	100K	0.380	8.0	0.75
100	$\pm$ 20%	25	100K	0.420	7.5	0.68
120	$\pm$ 20%	25	100K	0.460	7.2	0.60
150	$\pm$ 20%	25	100K	0.520	6.2	0.55
180	$\pm$ 20%	25	100K	0.700	5.8	0.50
220	$\pm$ 20%	25	100K	0.800	5.2	0.46
270	$\pm$ 20%	25	100K	1.100	4.8	0.40
330	$\pm$ 20%	25	100K	1.200	4.5	0.35
390	$\pm$ 20%	25	100K	1.400	4.2	0.33

*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

IDCS-5020 MODEL	10 μ H INDUCTANCE VALUE	$\pm$ 20% INDUCTANCE TOLERANCE
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