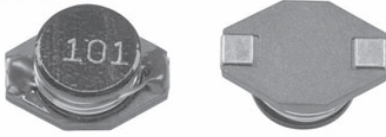


IDC-5020

Vishay Dale

VISHAY

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	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 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

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