High Current, Surface Mount Inductors - Non-Shielded



FEATURES

- High energy storage
- Low resistance
- Tape and reel packaging for automatic handling
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Pb-free

RoHS COMPLIANT

HALOGEN FREE

ELECTRICAL SPECIFICATIONS

Inductance Range: 1.0 µH to 1000 µH, tested at 0.1 V_{RMS}

Inductance Tolerance: 20 %, tighter tolerance available upon request

Operating Temperature: -40 °C to +125 °C

Resistance to Solder Heat: 260 °C for 10 s

MECHANICAL SPECIFICATIONS

Core: ferrite

Wire: enamelled copper wire

Base: LCP

Terminals: nickel bronze

Adhesive: epoxy resin

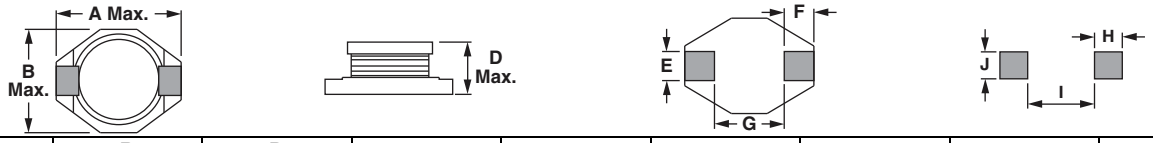
STANDARD ELECTRICAL SPECIFICATIONS

INDUCTANCE (µH)	TOLERANCE	TEST FREQUENCY L (kHz)	DCR MAX. (Ω)	I_{SAT} (A)	I_{RMS} (A)
1.0	± 20 %	100	0.009	20.0	8.6
2.2	± 20 %	100	0.014	16.0	7.1
3.3	± 20 %	100	0.018	14.0	6.2
5.6	± 20 %	100	0.020	12.0	5.3
10	± 20 %	100	0.031	10.0	4.3
15	± 20 %	100	0.036	8.0	4.0
22	± 20 %	100	0.047	7.0	3.5
33	± 20 %	100	0.066	5.5	3.0
47	± 20 %	100	0.086	4.5	2.6
68	± 20 %	100	0.13	3.5	2.3
100	± 20 %	100	0.19	3.0	1.8
150	± 20 %	100	0.25	2.6	1.5
220	± 20 %	100	0.38	2.4	1.2
330	± 20 %	100	0.56	1.9	1.0
470	± 20 %	100	0.85	1.4	0.82
680	± 20 %	100	1.1	1.2	0.72
1000	± 20 %	100	1.8	1.0	0.56

Notes

- Inductance drop = 10 % typ. at I_{SAT}
- ΔT = 40 °C typ. at I_{RMS}

DIMENSIONS in inches [millimeters]



A (Max.)	B (Max.)	D (Max.)	E	F	G	H	I	J
0.730 [18.54]	0.600 [15.24]	0.280 [7.11]	0.100 [2.54]	0.100 [2.54]	0.500 [12.70]	0.115 [2.92]	0.490 [12.45]	0.110 [2.79]

DESCRIPTION

IDC-7328	10 µH	± 20 %	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

I	D	C	7	3	2	8	E	R	1	0	0	M
PRODUCT FAMILY			SIZE				PACKAGE CODE		INDUCTANCE VALUE			TOL.

For technical questions, contact: magnetics@vishay.com

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