

Vishay Dale

RoHS

COMPLIANT

High Current, Surface Mount Inductors



ELECTRICAL SPECIFICATIONS

Inductance Range: 1.0 μ H to 1000 μ H, tested at 1.0 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

FEATURES

- · High energy storage
- Low resistance
- · Tape and reel packaging for automatic handling
- Compliant to RoHS directive 2002/95/EC

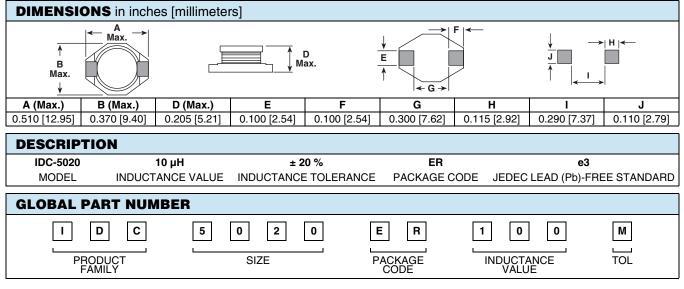
MECHANICAL SPECIFICATIONS

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	9.0	6.8
1.5	± 20 %	100	0.010	8.0	6.4
2.2	± 20 %	100	0.012	7.0	6.1
3.3	± 20 %	100	0.015	6.4	5.4
4.7	± 20 %	100	0.018	5.4	4.8
6.8	± 20 %	100	0.027	4.6	4.4
10	± 20 %	100	0.038	3.8	3.9
15	± 20 %	100	0.046	3.0	3.1
22	± 20 %	100	0.085	2.6	2.7
33	± 20 %	100	0.10	2.0	2.1
47	± 20 %	100	0.14	1.6	1.8
68	± 20 %	100	0.20	1.4	1.5
100	± 20 %	100	0.28	1.2	1.3
150	± 20 %	100	0.40	1.0	1.0
220	± 20 %	100	0.61	0.8	0.8
330	± 20 %	100	1.02	0.6	0.6
470	± 20 %	100	1.27	0.5	0.5
680	± 20 %	100	2.02	0.4	0.4
1000	± 20 %	100	3.00	0.3	0.3

Notes

Inductance drop = 10 % typ. at I_{SAT} $\Delta T = 15 °C$ typ. at I_{RMS}





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