

Vishay Dale

High Current, Shielded, Surface Mount Inductors



ELECTRICAL SPECIFICATIONS

Inductance Range: 1.0 μ H to 10 000 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

definition

- Magnetically shielded
- Tape and reel packaging for automatic handling
- Compliant to RoHS Directive 2002/95/EC

RoHS

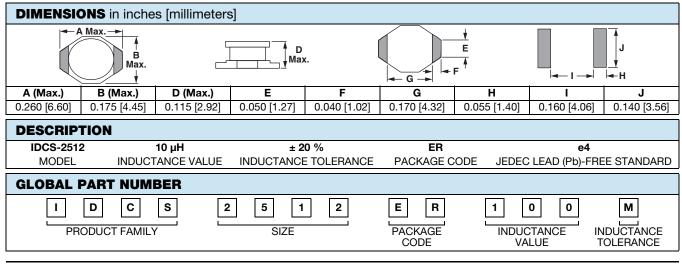
COMPLIANT HALOGEN • Halogen-free according to IEC 61249-2-21 FREE

MECHANICAL SPECIFICATIONS

Core: Ferrite Wire: Enamelled copper wire Base: Ceramic Terminals: Gold over nickel Adhesive: Epoxy resin

STANDARD ELECTRICAL SPECIFICATIONS				
INDUCTANCE (µH)	TOLERANCE	TEST FREQUENCY L (kHz)	DCR MAX. (Ω)	RATED DC CURRENT (A) ⁽¹⁾
1.0	± 20 %	100	0.040	3.0
1.5	± 20 %	100	0.045	2.8
2.2	± 20 %	100	0.050	1.8
3.3	± 20 %	100	0.055	1.6
4.7	± 20 %	100	0.060	1.4
6.8	± 20 %	100	0.065	1.2
10	± 20 %	100	0.075	1.0
15	± 20 %	100	0.090	0.80
22	± 20 %	100	0.11	0.70
33	± 20 %	100	0.19	0.60
47	± 20 %	100	0.23	0.50
68	± 20 %	100	0.29	0.40
100	± 20 %	100	0.48	0.30
150	± 20 %	100	0.59	0.26
220	± 20 %	100	0.77	0.22
330	± 20 %	100	1.4	0.20
470	± 20 %	100	1.8	0.19
680	± 20 %	100	2.2	0.18
1000	± 20 %	100	3.4	0.15
1500	± 20 %	100	4.2	0.12
2200	± 20 %	100	8.5	0.10
3300	± 20 %	100	11.0	0.08
4700	± 20 %	100	13.9	0.06
6800	± 20 %	100	25.0	0.04
10 000	± 20 %	100	32.8	0.02

Notes (1) 30 °C temperature rise



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