

Vishay Dale

RoHS

COMPLIANT

HALOGEN

FREE

### **High Current, Surface Mount Inductors**



#### **ELECTRICAL SPECIFICATIONS**

Inductance Range: 1.0  $\mu H$  to 1000  $\mu H$ , tested at 1.0  $V_{RMS}$  Inductance Tolerance: 20 %, tighter tolerance available upon request

Operating Temperature: - 40  $^{\circ}C$  to + 125  $^{\circ}C$  Resistance to Solder Heat: 260  $^{\circ}C$  for 10 s

#### FEATURES

- High energy storage
- Low resistance
- Tape and reel packaging for automatic handling
- Compliant to RoHS Directive 2002/95/EC
- Halogen-free according to IEC 61249-2-21 definition

### **MECHANICAL SPECIFICATIONS**

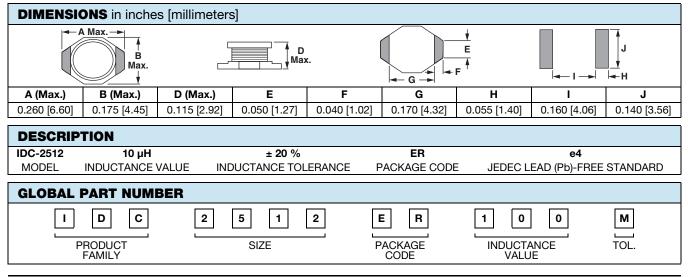
Core: Ferrite Wire: Enamelled copper wire Base: Ceramic Terminals: Gold over nickel Adhesive: Epoxy resin

STANDARD ELECTRICAL SPECIFICATIONS					
INDUCTANCE (µH)	TOLERANCE	TEST FREQUENCY L (kHz)	DCR MAX. (Ω)	I <sub>SAT</sub> (A)	I <sub>RMS</sub> (A)
1.0	± 20 %	100	0.05	2.9	2.9
1.5	± 20 %	100	0.05	2.6	2.8
2.2	± 20 %	100	0.07	2.3	2.4
3.3	± 20 %	100	0.08	2.0	2.0
4.7	± 20 %	100	0.09	1.5	1.5
6.8	± 20 %	100	0.13	1.2	1.4
10	± 20 %	100	0.16	1.1	1.1
15	± 20 %	100	0.23	0.90	1.2
22	± 20 %	100	0.37	0.70	0.80
33	± 20 %	100	0.51	0.58	0.60
47	± 20 %	100	0.64	0.50	0.50
68	± 20 %	100	0.86	0.40	0.40
100	± 20 %	100	1.27	0.31	0.30
150	± 20 %	100	2.00	0.27	0.25
220	± 20 %	100	3.11	0.22	0.20
330	± 20 %	100	3.80	0.18	0.16
470	± 20 %	100	5.06	0.16	0.15
680	± 20 %	100	9.20	0.14	0.12
1000	± 20 %	100	13.8	0.10	0.07

Notes

Inductance drop = 10 % typ. at I<sub>SAT</sub>

•  $\Delta T = 15 \,^{\circ}C$  typ. at I<sub>RMS</sub>





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