

Vishay Dale

RoHS

COMPLIANT

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



### **ELECTRICAL SPECIFICATIONS**

Inductance Range: 1.0 µH to 390.0 µH, tested at 0.1 V<sub>RMS</sub> Inductance Tolerance: 20 %, tighter tolerance available upon request

Operating Temperature: -40 °C to +125 °C Resistance to Solder Heat: 260 °C for 10 s

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#### **FEATURES**

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

### **MECHANICAL SPECIFICATIONS**

Core: ferrite Wire: enamelled copper wire Base: LCP Terminals: nickel bronze

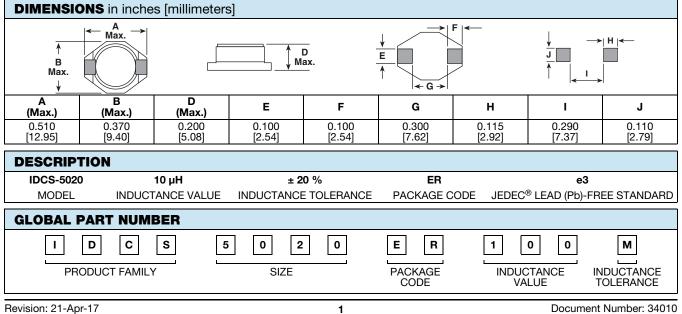
Adhesive: epoxy resin

INDUCTANCE (µH)	TOLERANCE	TEST FREQUENCY L (kHz)	DCR MAX. (Ω)	I <sub>SAT</sub> (A)	I <sub>RMS</sub> (A)
1.0	± 20 %	100	0.021	5.6	5.0
1.5	± 20 %	100	0.022	5.2	4.5
2.2	± 20 %	100	0.032	5.0	3.8
3.3	± 20 %	100	0.039	3.9	3.3
4.7	± 20 %	100	0.054	3.2	2.7
6.8	± 20 %	100	0.075	2.8	2.2
10	± 20 %	100	0.101	2.4	2.0
15	± 20 %	100	0.150	2.0	1.5
22	± 20 %	100	0.207	1.6	1.3
33	± 20 %	100	0.334	1.4	1.1
47	± 20 %	100	0.472	1.0	0.80
56	± 20 %	100	0.210	0.95	0.90
68	± 20 %	100	0.340	0.90	0.82
82	± 20 %	100	0.380	0.85	0.75
100	± 20 %	100	0.420	0.80	0.68
120	± 20 %	100	0.460	0.70	0.60
150	± 20 %	100	0.520	0.60	0.55
180	± 20 %	100	0.700	0.65	0.50
220	± 20 %	100	0.800	0.50	0.45
270	± 20 %	100	1.100	0.45	0.40
330	± 20 %	100	1.200	0.40	0.35
390	± 20 %	100	1.400	0.35	0.33

#### 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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