Vishay Dale

# **High Current, Surface Mount Inductors - Wirewound Molded**





STANDARD ELECTRICAL SPECIFICATIONS			
IND. AT 1 kHz (µH)	DCR MAX. (Ω)	RATED CURRENT MAX. (A)	INCREMENTAL CURRENT APPROX. (A)
1.0	0.015	5.11	4.41
1.2	0.016	4.93	4.11
1.5	0.017	4.63	3.66
1.8	0.022	4.27	3.22
2.2	0.031	3.61	2.62
2.7	0.038	3.18	2.40
3.3	0.045	2.94	2.13
3.9	0.062	2.57	2.05
4.7	0.083	2.17	1.93
5.6	0.091	2.08	1.79
6.8	0.101	1.94	1.62
8.2	0.118	1.83	1.50
10.0	0.126	1.74	1.36
12.0	0.170	1.50	1.26
15.0	0.228	1.29	1.11
18.0	0.306	1.13	1.05
22.0	0.336	1.05	0.96
27.0	0.389	0.98	0.86
33.0	0.440	0.92	0.75
39.0	0.490	0.86	0.72
47.0	0.646	0.74	0.68
56.0	0.845	0.65	0.64
68.0	1.040	0.61	0.58
82.0	1.240	0.56	0.51
100.0	1.440	0.48	0.42
120.0	2.180	0.45	0.40
150.0	2.900	0.38	0.37
180.0	3.280	0.36	0.33
220.0	3.650	0.34	0.28
270.0	4.400	0.29	0.26
330.0	5.070	0.27	0.23
390.0	5.900	0.23	0.20
470.0	7.670	0.22	0.19
560.0	8.850	0.21	0.17
680.0	10.20	0.18	0.15
820.0	11.58	0.17	0.14
1000.0	12.97	0.16	0.13

### **FEATURES**

- Flame retardant encapsulant (UL 94 V-0)
- · Completely encapsulated winding provides superior environmental protection and moisture RoHS

COMPLIANT

- · High current unit in surface mount package printed with model, inductance value and date code
- Compatible with infrared or conventional reflow soldering methods
- Pick and place compatible
- · Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

### APPLICATIONS

Excellent power line noise filters, filters for switching regulated power supplies, DC/DC converters, SCR and triac controls and RFI suppression.

### **ELECTRICAL SPECIFICATIONS**

Inductance: Measured at 1 V with no DC current

**Inductance Tolerance:** ± 15 %

Incremental Current: The typical current at which the inductance will be decreased by 5 % from its initial zero DC value

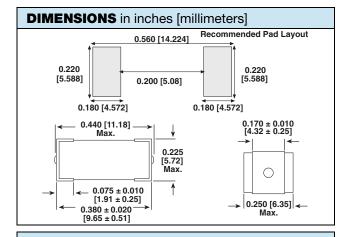
Operating Temperature: -55 °C to +125 °C (no load); -55 °C to +85 °C (at full rated current)

### **MECHANICAL SPECIFICATIONS**

Core: High resistivity ferrite core

Encapsulant: Epoxy

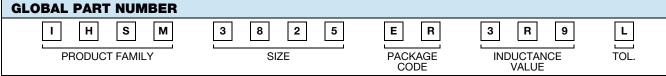
Terminals: 100 % Sn over Ni





- Model
- Inductance value
- Date code

#### **DESCRIPTION** IHSM-3825 3.9 µH ± 15 % **ER** MODEL INDUCTANCE VALUE PACKAGE CODE JEDEC LEAD (Pb)-FREE STANDARD INDUCTANCE TOLERANCE





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Vishay

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