### **IHSM-5832**



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	0.010	9.0	6.2
1.2	0.011	8.8	5.6
1.5	0.012	8.7	5.0
1.8	0.013	8.6	4.4
2.2	0.015	8.5	4.0
2.7	0.017	8.4	3.7
3.3	0.020	8.3	3.4
3.9	0.021	7.9	3.1
4.7	0.023	7.4	2.8
5.6	0.024	7.0	2.6
6.8	0.038	6.1	2.3
8.2	0.047	5.1	2.0
10.0	0.053	4.3	1.8
12.0	0.068	3.9	1.7
15.0	0.078	3.5	1.6
18.0	0.083	3.2	1.5
22.0	0.12	2.8	1.3
27.0	0.14	2.3	1.2
33.0	0.17	1.9	1.1
39.0	0.19	1.8	1.03
47.0	0.215	1.77	0.93
56.0	0.236	1.71	0.90
68.0	0.305	1.43	0.82
82.0	0.357	1.14	0.75
100.0	0.452	0.95	0.68
120.0	0.530	0.88	0.63
150.0	0.609	0.82	0.58
180.0	0.809	0.75	0.54
220.0	1.10	0.69	0.48
270.0	1.10	0.64	0.43
330.0	1.42	0.59	0.38
390.0	1.42	0.54	0.34
470.0	2.21	0.49	0.34
560.0	2.42	0.49	0.28
	2.42	0.43	0.28
680.0 820.0	3.78	0.43	0.25
	4.20	0.40	0.23
1000.0		0.37	_
1200.0	5.51 7.35		0.19
1500.0		0.29	0.17
1800.0	8.66	0.25	0.16
2200.0	9.71	0.22	0.14
2700.0	11.29	0.20	0.13
3300.0	15.60	0.18	0.12
3900.0	20.74	0.16	0.11
4700.0	23.10	0.14	0.10

Note

Contact factory for values up to 10 000 µH

### **FEATURES**

Flame retardant encapsulant (UL 94 V-0)



- Completely encapsulated winding provides superior environmental protection and moisture resistance
- High current unit in surface-mount package COMPLIANT printed with model, inductance value and date code
- Compatible with infrared or conventional reflow soldering methods
- Pick and place compatible
- Tape and reel packaging for automatic handling
- 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**

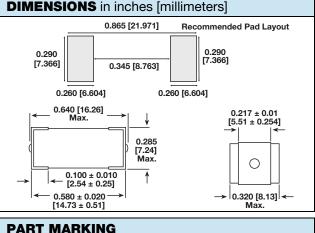
Inductance: Measured at 1 V with no DC current Inductance Tolerance: ± 15 %

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)

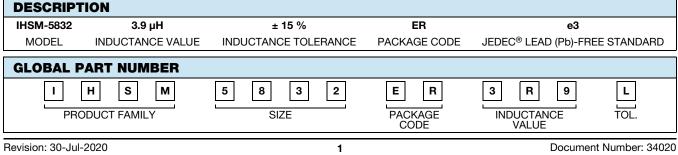
### **MECHANICAL SPECIFICATIONS**

Core: High resistivity ferrite core Encapsulant: Epoxy Terminals: 100 % Sn over Ni



### - Model

- Inductance value
- Date code



For technical questions, contact: magnetics@vishay.com

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