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





IND. AT 1 kHz (µH)	DCR MAX. (Ω)	RATED CURRENT MAX. (A)	INCREMENTAL CURRENT APPROX (A)
1.0	0.010	9.0	6.2
1.0	0.010	9.0 8.8	5.6
1.2	0.011	8.8 8.7	5.0
	0.012		4.4
1.8 2.2	0.015	8.6	4.4
		8.5	
2.7 3.3	0.017 0.020	8.4 8.3	3.7
3.9	0.021	7.9 7.4	3.1 2.8
4.7	0.023		
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	1.27	0.64	0.43
330.0	1.42	0.59	0.38
390.0	1.89	0.54	0.34
470.0	2.21	0.49	0.31
560.0	2.42	0.46	0.28
680.0	2.73	0.43	0.25
820.0	3.78	0.40	0.23
1000.0	4.20	0.37	0.21
1200.0	5.51	0.32	0.19
1500.0	7.35	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

PRODUCT FAMILY

#### **FEATURES**

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



RoHS

- High current unit in surface-mount package compliant printed with model, inductance value and date code
- Compatible with infrared or conventional reflow soldering
- methodsPick and place compatible
- Tape and reel packaging for automatic handling
- Material categorization: for definitions of compliance please see <a href="https://www.vishav.com/doc?99912">www.vishav.com/doc?99912</a>

#### 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

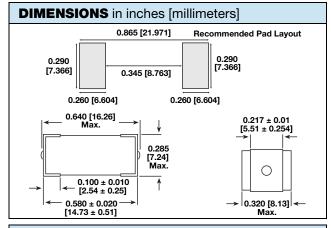
**Operating Temperature:** -55 °C to +125 °C (no load); -55 °C to +85 °C (at full rated current)

#### **MECHANICAL SPECIFICATIONS**

Core: High resistivity ferrite core

**Encapsulant:** Epoxy

Terminals: 100 % Sn over Ni



**INDUCTANCE** 

VALUE

TOL

#### PART MARKING

- Model
- Inductance value

PACKAGE

CODE

- Date code

#### Contact factory for values up to 10 000 µH **DESCRIPTION** IHSM-5832 3.9 µH ± 15 % **ER** MODEL INDUCTANCE VALUE PACKAGE CODE JEDEC® LEAD (Pb)-FREE STANDARD INDUCTANCE TOLERANCE **GLOBAL PART NUMBER** 5 2 М 8 3 Е R 3 R 9 Н s

Revision: 30-Jul-2020 1 Document Number: 34020

SIZE



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