

# High Current, Surface-Mount Inductors - Wirewound Molded


**RoHS**  
COMPLIANT

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	1.27	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

**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 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](http://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

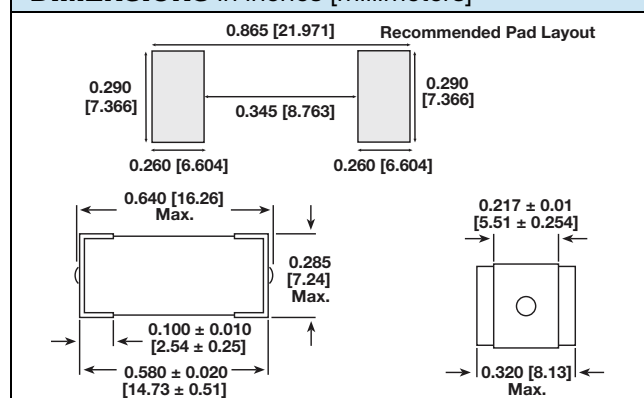
**Operating Temperature:** -55 °C to +125 °C (no load); -55 °C to +85 °C (at full rated current)

**MECHANICAL SPECIFICATIONS**

**Core:** High resistivity ferrite core

**Encapsulant:** Epoxy

**Terminals:** 100 % Sn over Ni

**DIMENSIONS** in inches [millimeters]

**PART MARKING**

- Model
- Inductance value
- Date code

**DESCRIPTION**

<b>IHSM-5832</b>	<b>3.9 μH</b>	<b>± 15 %</b>	<b>ER</b>	<b>e3</b>
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

**GLOBAL PART NUMBER**

I	H	S	M	5	8	3	2	E	R	3	R	9	L
PRODUCT FAMILY				SIZE				PACKAGE CODE		INDUCTANCE VALUE			TOL.



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