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## **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		6.2			
1.0		9.0 8.8	5.6			
	0.011 0.012					
1.5		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

#### **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 methods
- Pick 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"><u>www.vishav.com/doc?99912</u></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.

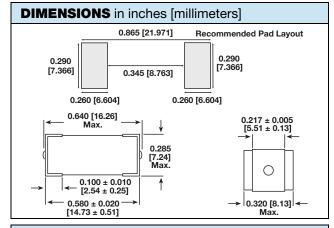
**Operating Temperature:** -55  $^{\circ}$ C to +125  $^{\circ}$ C (no load); -55  $^{\circ}$ C to +85  $^{\circ}$ C (at full rated current)

#### **MECHANICAL SPECIFICATIONS**

Core: High resistivity ferrite core

**Encapsulant:** Epoxy

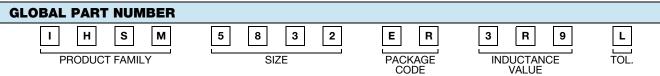
Terminals: 100 % Sn over Ni



#### PART MARKING

- Model
- Inductance value
- Date code

IHSM-5832 3.9 μH ± 15 % ER e3  MODEL INDUCTANCE VALUE INDUCTANCE TO FRANCE PACKAGE CODE IEDEC® LEAD (Ph)-FREE STANDAR	DESCRIPTION							
MODEL INDUCTANCE VALUE INDUCTANCE TO ERANCE PACKAGE CODE IEDEC® LEAD (Ph)-FREE STANDAS	IHSM-5832	3.9 µH	± 15 %	ER	e3			
MODEL INDOCTANCE VALGE INDOCTANCE TOLETANCE TACKAGE CODE GEDEC LEAD (1.0) THEE GRANDAL	MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD			



Contact factory for values above 47 000 μH



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