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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
1.2	0.010	8.8	5.6
1.5	0.011	8.7	5.0
1.8	0.012	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	0.020	7.9	3.1
4.7	0.021	7.4	2.8
5.6	0.024	7.0	2.6
6.8	0.024	6.1	2.3
8.2	0.038	5.1	2.0
10.0	0.047	4.3	1.8
12.0	0.033	3.9	1.7
15.0	0.000	3.5	1.6
18.0	0.076	3.2	1.5
22.0	0.003	2.8	1.3
27.0	0.12	2.3	1.2
33.0	0.14	1.9	1.1
39.0	0.17	1.8	1.03
47.0	0.13	1.77	0.93
56.0	0.215	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	0.12
4700.0	23.10	0.14	0.10

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



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 <u>www.vishav.com/doc?99912</u>

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

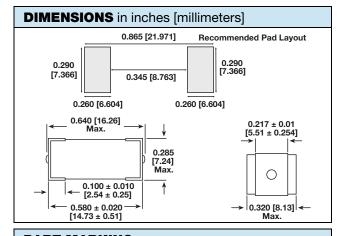
Operating Temperature: -55 °C to +125 °C (no load); -55 °C to +85 °C (at full rated current)

MECHANICAL SPECIFICATIONS

Core: High resistivity ferrite core

Encapsulant: Epoxy

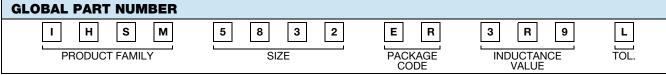
Terminals: 100 % Sn over Ni



PART MARKING

- Model
- Inductance value
- Date code

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





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