IHSM-7832



Vishay Dale

High Current, Surface Mount Inductors - Wirewound Molded



STANDARD ELECTRICAL SPECIFICATIONS			
IND. AT 1 kHz	DCR MAX.	RATED CURRENT MAX. (A)	INCREMENTAL CURRENT APPROX. (A)
(µH)	(Ω)		. ,
1.0	0.011	9.0	5.3
1.2	0.012	8.8	4.8
1.5 1.8	0.012	8.6 8.5	4.4
2.2	0.013	8.4	4.0
2.2	0.014	8.2	3.2
3.3	0.010	8.1	2.8
3.9	0.02	7.3	2.6
4.7	0.023	6.7	2.4
5.6	0.025	6.0	2.3
6.8	0.028	5.6	2.1
8.2	0.032	5.3	1.9
10.0	0.036	5.0	1.7
12.0	0.04	4.8	1.5
15.0	0.043	4.5	1.4
18.0	0.047	4.2	1.3
22.0	0.054	3.8	1.2
27.0	0.074	3.4	1.1
33.0	0.084	3.0	0.99
39.0	0.095	2.8	0.93
47.0	0.12	2.6	0.87
56.0	0.14	2.4	0.82
68.0	0.16	2.1	0.76
82.0	0.184	1.9	0.72
100.0	0.226	1.7	0.68
120.0		1.5 1.4	0.61
150.0 180.0	0.362 0.399	1.4	0.54 0.48
220.0	0.536	1.1	0.48
270.0	0.599	0.95	0.44
330.0	0.714	0.86	0.36
390.0	0.819	0.8	0.33
470.0	1.1	0.74	0.31
560.0	1.2	0.68	0.29
680.0	1.58	0.63	0.26
820.0	2.08	0.573	0.23
1000.0	2.42	0.51	0.21
1200.0	2.68	0.46	0.19
1500.0	3.15	0.4	0.17
1800.0	4.2	0.34	0.15
2200.0	4.62	0.31	0.135
2700.0	6.3	0.29	0.12
3300.0	7.09	0.27	0.11
3900.0	9.14	0.25	0.1
4700.0	10.6	0.23	0.09
5600.0	11.8	0.21	0.08
6800.0 8200.0	15.8 21.8	0.19	0.0775
10 000.0	21.8	0.17 0.16	0.0725 0.07
12 000.0	24.6	0.16	0.07
15 000.0	37.8	0.14	0.0625
18 000.0	44.1	0.12	0.05
10 000.0	1 7.1	V. I I	0.00

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
- 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 %

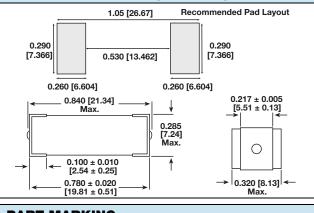
Incremental Current: The typical current at which the inductance will be decreased by 5 % from its initial zero DC value

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

MECHANICAL SPECIFICATIONS

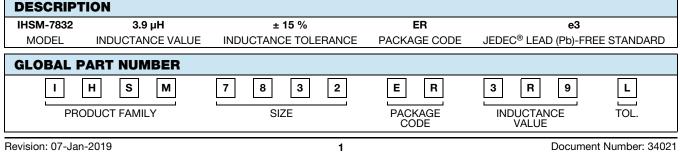
Core: High resistivity ferrite core Encapsulant: Epoxy Terminals: 100 % Sn over Ni

DIMENSIONS in inches [millimeters]



PART MARKING

- Model
- Inductance value
- Date code



For technical questions, contact: magnetics@vishay.com

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