### **IHSM-7832**



### Vishay Dale

### **High Current, Surface Mount Inductors**



STANDARD ELECTRICAL SPECIFICATIONS			
IND. AT 1 kHz (µH)		RATED CURRENT MAX. (A)	INCREMENTAL CURRENT APPROX. (A)
1.0	0.011	9.0	5.3
1.2	0.012	8.8	4.8
1.5	0.012	8.6	4.4
1.8	0.013	8.5	4.0
2.2	0.014	8.4	3.6
2.7	0.016	8.2	3.2
3.3	0.017	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	0.305	1.5	0.61
150.0	0.362	1.4	0.54
180.0	0.399	1.3	0.48
220.0	0.536	1.1	0.44
270.0	0.599	0.95	0.4
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	15.8	0.19	0.0775
8200.0	21.8	0.17	0.0725
10 000.0	24.6	0.16	0.07
12 000.0	28.4	0.14	0.0625
15 000.0	37.8	0.12	0.055
18 000.0	44.1	0.11	0.05

#### **FEATURES**

• Flame retardant encapsulant (UL 94 V-0) · Completely encapsulated winding provides



- RoHS
- resistance • 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
- Compliant to RoHS directive 2002/95/EC

#### **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
- Date code





Vishay

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