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Vishay Dale

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	0.015	5.11	4.41			
1.2	0.016	4.93	4.11			
1.5	0.017	4.63	3.66			
1.8	0.022	4.27	3.22			
2.2	0.031	3.61	2.62			
2.7	0.038	3.18	2.40			
3.3	0.045	2.94	2.13			
3.9	0.062	2.57	2.05			
4.7	0.083	2.17	1.93			
5.6	0.091	2.08	1.79			
6.8	0.101	1.94	1.62			
8.2	0.118	1.83	1.50			
10.0	0.126	1.74	1.36			
12.0	0.170	1.50	1.26			
15.0	0.228	1.29	1.11			
18.0	0.306	1.13	1.05			
22.0	0.336	1.05	0.96			
27.0	0.389	0.98	0.86			
33.0	0.440	0.92	0.75			
39.0	0.490	0.86	0.72			
47.0	0.646	0.74	0.68			
56.0	0.845	0.65	0.64			
68.0	1.040	0.61	0.58			
82.0	1.240	0.56	0.51			
100.0	1.440	0.48	0.42			
120.0	2.180	0.45	0.40			
150.0	2.900	0.38	0.37			
180.0	3.280	0.36	0.33			
220.0	3.650	0.34	0.28			
270.0	4.400	0.29	0.26			
330.0	5.070	0.27	0.23			
390.0	5.900	0.23	0.20			
470.0	7.670	0.22	0.19			
560.0	8.850	0.21	0.17			
680.0	10.20	0.18	0.15			
820.0	11.58	0.17	0.14			
1000.0	12.97	0.16	0.13			

FEATURES

- Flame retardant encapsulant (UL 94 V-0)
- · Completely encapsulated winding provides superior environmental protection and moisture RoHS

COMPLIANT

- · 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
- 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

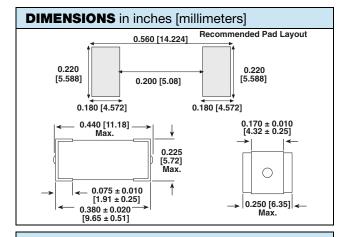
Operating Temperature: -55 °C to +125 °C (no load); -55 °C to +85 °C (at full rated current)

MECHANICAL SPECIFICATIONS

Core: High resistivity ferrite core

Encapsulant: Epoxy

Terminals: 100 % Sn over Ni



PART MARKING

- Model
- Inductance value
- Date code

DESCRIPTION IHSM-3825 3.9 µH ± 15 % **ER MODEL** INDUCTANCE VALUE INDUCTANCE TOLERANCE PACKAGE CODE JEDEC LEAD (Pb)-FREE STANDARD

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



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