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	0.013	8.6	4.1			
1.2	0.018	7.6	3.8			
1.5	0.02	6.9	3.5			
1.8	0.021	6.5	3.2			
2.2	0.029	5.7	2.9			
2.7	0.034	5.1	2.6			
3.3	0.038	4.6	2.4			
3.9	0.042	4.3	2.2			
4.7	0.047	4.0	2.0			
5.6	0.051	3.8	1.9			
6.8	0.058	3.5	1.7			
8.2	0.063	3.3	1.5			
10.0	0.071	3.1	1.4			
12.0	0.079	2.7	1.3			
15.0	0.089	2.3	1.2			
18.0	0.119	1.9	1.1			
22.0	0.152	1.7	1.02			
27.0	0.179	1.6	0.95			
33.0	0.222	1.3	0.88			
39.0	0.315	1.19	0.8			
47.0	0.362	1.07	0.74			
56.0	0.397	0.95	0.68			
68.0	0.446	0.87	0.62			
82.0	0.604	0.8	0.56			
100.0	0.672	0.73	0.5			
120.0	0.735	0.66	0.45			
150.0	0.998	0.58	0.4			
180.0	1.37	0.5	0.35			
220.0	1.58	0.46	0.32			
270.0	1.77	0.41	0.3			
330.0	2.51	0.37	0.28			
390.0	2.73	0.34	0.26			
470.0	3.36	0.32	0.24			
560.0	3.75	0.3	0.23			
680.0	4.31	0.28	0.2			
820.0	6.04	0.26	0.17			
1000.0	6.9	0.24	0.15			

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 www.vishav.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.

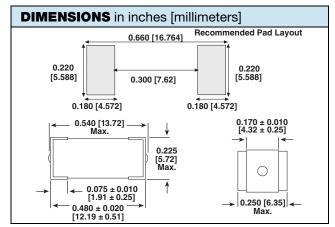
Operating Temperature: -55 °C to +125 °C (no load); -55 °C to +85 °C (at full rated current)

MECHANICAL SPECIFICATIONS

Core: High resistivity ferrite core

Encapsulant: Epoxy

Terminals: 100 % Sn over Ni



VALUE



- Model
- Inductance value

CODE

- Date code

DESCRIPTION							
IHSM-4825 MODEL	3.9 μ H INDUCTANCE VALUE	± 15 % INDUCTANCE TOLERANCE	ER PACKAGE CODE	e3 JEDEC LEAD (Pb)-FREE STANDARD			
GLOBAL PART NUMBER							
I PRO	H S M	4 8 2 5 SIZE	E R	3 R 9 L INDUCTANCE TOL			

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Vishay

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