Vishay Dale



High Current, Surface Mount Inductor



STANDARD ELECTRICAL SPECIFICATIONS						
IND. at 1 kHz (µH)	DCR MAX. (Ohms)	RATED CURRENT (Max. Amps)	INCREMENTAL CURRENT (Amps Approx.)			
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 94V-0)
- · Completely encapsulated winding provides superior environmental protection and moisture resistance



- High current unit in surface mount package printed with model, inductance value and date code
- Compatible with infrared or conventional reflow soldering
- · Pick and place compatible

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 volt 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

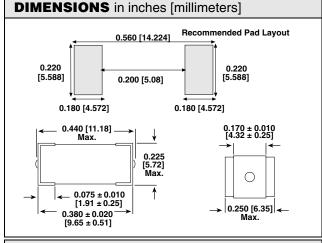
Operating Temperature: - 55 °C to + 125 °C (no load); - 55 °C to + 85 °C (at full rated current)

MATERIAL SPECIFICATIONS

Core: High resistivity ferrite core

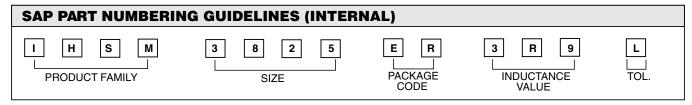
Encapsulant: Epoxy

Terminals: 100 % Sn over Ni



PART MARKING - Model - Inductance value - Date code

DESCRIPTION						
IHSM-3825	3.9 µH	± 15 %	ER	e3		
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE		JEDEC LEAD (Pb)-FREE STANDARD		





Vishay

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