

Vishay Dale

High Current, Surface Mount Inductors

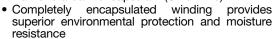




STANDARD ELECTRICAL SPECIFICATIONS						
IND.	DCR	RATED	INCREMENTAL			
AT 1 kHz (μH)	MAX. (Ω)	CURRENT MAX. (A)	CURRENT APPROX (A)			
1.0	0.013	8.6	4.1			
1.2	0.018	7.6	3.8			
1.5	0.02	6.9	3.5			
1.8	0.021	6.5	3.2			
2.2	0.029	5.7	2.9			
2.7	0.034	5.1	2.6			
3.3	0.038	4.6	2.4			
3.9	0.042	4.3	2.2			
4.7	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)





RoHS

- High current unit in surface mount package printed COMPLIANT 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
- Compliant to RoHS directive 2002/95/EC

APPLICATIONS

Excellent power line noise filters, filters for switching regulated power supplies, dc-to-dc converters, SCR and Triac controls and RFI suppression.

ELECTRICAL SPECIFICATIONS

Inductance: Measured at 1 V with no DC current

Inductance Tolerance: ± 15 %

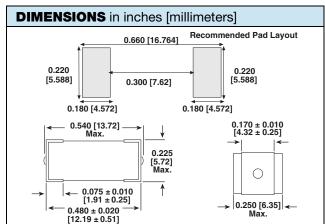
Incremental Current: The typical current at which the inductance will be decreased by 5 % from its initial zero DC

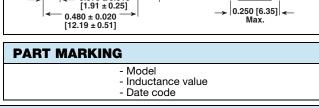
Operating Temperature: - 55 °C to + 125 °C (no load); - 55 °C to + 85 °C (at full rated current)

MECHANICAL SPECIFICATIONS

Core: High resistivity ferrite core

Encapsulant: Epoxy Terminals: 100 % Sn over Ni





DESCRIPTION							
IHSM-4825	3.9 µH	± 15 %	ER	e3			
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STAND	ARD		
GLOBAL PART NUMBER							
	H S M	4 8 2 5	E R	3 R 9 L			
PRODUCT FAMILY		SIZE	PACKAGE CODE	INDUCTANCE TOL.			



Vishay

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