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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Vishay Dale

# **High Current, Surface Mount Inductors**

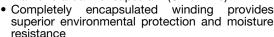




STANDARD ELECTRICAL SPECIFICATIONS									
IND. AT 1 kHz (µH)	DCR MAX. (Ω)	RATED CURRENT MAX. (A)	INCREMENTAL CURRENT APPROX. (A)						
1.0	0.013	8.6	4.1						
1.2	0.018	7.6	3.8						
1.5	0.02	6.9	3.5						
1.8	0.021	6.5	3.2						
2.2	0.029	5.7	2.9						
2.7	0.034	5.1	2.6						
3.3	0.038	4.6	2.4			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





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
- 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

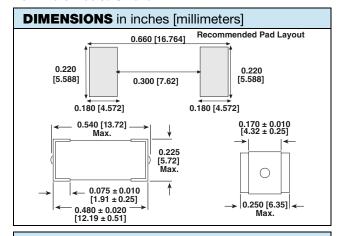
**Operating Temperature:** - 55 °C to + 125 °C (no load); - 55 °C to + 85 °C (at full rated current)

### **MECHANICAL SPECIFICATIONS**

Core: High resistivity ferrite core

**Encapsulant:** Epoxy

Terminals: 100 % Sn over Ni



### PART MARKING

- Model
- Inductance value
- Date code

DESCRIPTION							
IHSM-4825	3.9 µH	± 15 %	ER	e3			
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD			

GLOBAL PART NUMBER								
PRODUCT FAMILY	4 8 2 5 SIZE	PACKAGE CODE	3 R 9 INDUCTANCE VALUE	TOL.				



# **Legal Disclaimer Notice**

Vishay

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Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.

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