

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	0.010	9.0	6.2			
1.2	0.011	8.8	5.6			
1.5	0.012	8.7	5.0			
1.8	0.013	8.6	4.4			
2.2	0.015	8.5	4.0			
2.7	0.017	8.4	3.7			
3.3	0.020	8.3	3.4			
3.9	0.021	7.9	3.1			
4.7	0.023	7.4	2.8			
5.6	0.024	7.0	2.6			
6.8	0.038	6.1	2.3			
8.2	0.047	5.1	2.0			
10.0	0.053	4.3	1.8			
12.0	0.068	3.9	1.7			
15.0	0.078	3.5	1.6			
18.0	0.083	3.2	1.5			
22.0	0.12	2.8	1.3			
27.0	0.14	2.3	1.2			
33.0	0.17	1.9	1.1			
39.0	0.19	1.8	1.03			
47.0	0.215	1.77	0.93			
56.0	0.236	1.71	0.90			
68.0	0.305	1.43	0.82			
82.0	0.357	1.14	0.75			
100.0	0.452	0.95	0.68			
120.0	0.530	0.88	0.63			
150.0	0.609	0.82	0.58			
180.0	0.809	0.75	0.54			
220.0	1.10	0.69	0.48			
270.0	1.27	0.64	0.43			
330.0	1.42	0.59	0.38			
390.0	1.89	0.54	0.34			
470.0	2.21	0.49	0.31			
560.0	2.42	0.46	0.28			
680.0	2.73	0.43	0.25			
820.0	3.78	0.40	0.23			
1000.0	4.20	0.37	0.21			
1200.0	5.51	0.32	0.19			
1500.0	7.35	0.29	0.17			
1800.0	8.66	0.25	0.16			
2200.0	9.71	0.22	0.14			
2700.0	11.29	0.20	0.13			
3300.0	15.60	0.18	0.12			
3900.0	20.74	0.16	0.11			
4700.0	23.10	0.14	0.10			

### **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 printed with model, inductance value and date code
- codeCompatible with infrared or conventional reflow soldering
- Compatible with infrared or conventional reliow 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

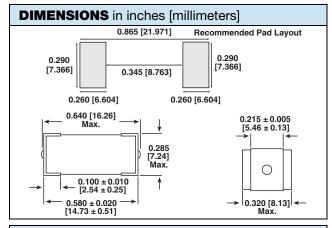
**Operating Temperature:** - 55 °C to + 125 °C (no load); - 55 °C to + 85 °C (at full rated current)

### **MECHANICAL SPECIFICATIONS**

Core: High resistivity ferrite core

**Encapsulant:** Epoxy

Terminals: 100 % Sn over Ni



## Note

Contact factory for values above 47 000 μH

### **PART MARKING**

- Model
- Inductance value
- Date code

DESCRIPTION								
IHSM-5832	3.9 µH	± 15 %	ER	e3				
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD				
GLOBAL PART NUMBER								

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



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Vishay

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