IHSM-5832



Vishay Dale

High Current, Surface Mount Inductors



IND. AT 1 $kHz (\muH)$ DCR MAX. (Ω)RATED CURRENT MAX. (A)INCREMENTAL CURRENT APPROX. (A)1.00.0109.06.21.20.0118.85.61.50.0128.75.01.80.0138.64.42.20.0158.54.02.70.0178.43.73.30.0208.33.43.90.0217.93.14.70.0237.42.85.60.0247.02.66.80.0386.12.38.20.0475.12.010.00.0534.31.812.00.0683.91.715.00.0783.51.618.00.0833.21.522.00.122.81.327.00.142.31.233.00.171.91.139.00.191.81.0347.00.2151.770.9356.00.2361.430.8222.00.142.00.58180.00.8090.750.54220.01.120.690.48270.01.270.640.43330.01.420.590.38180.00.8090.750.54220.01.100.690.48270.01.270.640.43330.01.420.590.38180.0	STANDARD ELECTRICAL SPECIFICATIONS				
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	15.0	0.078	3.5		
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		0.12	2.8	1.3	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	27.0	0.14	2.3	1.2	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	33.0	0.17	1.9	1.1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	39.0	0.19	1.8	1.03	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	47.0		1.77	0.93	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	56.0	0.236	1.71	0.90	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	68.0	0.305		0.82	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	82.0	0.357	1.14	0.75	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	100.0	0.452	0.95	0.68	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	120.0	0.530	0.88	0.63	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	150.0				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	180.0	0.809	0.75		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	220.0		0.69		
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3300.0 15.60 0.18 0.12 3900.0 20.74 0.16 0.11					
3900.0 20.74 0.16 0.11					
4700.0 23.10 0.14 0.10					
	4700.0	23.10	0.14	0.10	

Note

Contact factory for values above 47 000 µH

DESCRIPTION IHSM-5832 ER 3.9 µH ± 15 % e3 MODEL INDUCTANCE VALUE INDUCTANCE TOLERANCE PACKAGE CODE JEDEC LEAD (Pb)-FREE STANDARD **GLOBAL PART NUMBER** S М 5 8 3 2 Е R 3 R 9 L н L PRODUCT FAMILY INDUCTANCE VALUE SIZE PACKAGE TOL CODE

- superior environmental protection and moisture resistance High current unit in surface mount package printed
- 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

Flame retardant encapsulant (UL 94 V-0)
Completely encapsulated winding

APPLICATIONS

FEATURES

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

ELECTRICAL SPECIFICATIONS

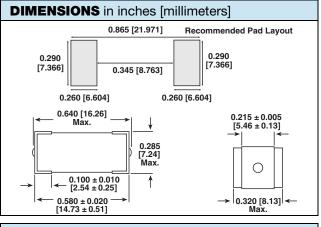
Inductance: Measured at 1 V with no DC current Inductance Tolerance: \pm 15 %

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



Vishay

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