IHSM-5832



Vishay Dale

High Current, Surface-Mount Inductors - Wirewound Molded



$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	STANDARD ELECTRICAL SPECIFICATIONS				
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 0.28 680.0 2.73 0.43	1 kHz	MAX.	CURRENT	CURRENT APPROX. (A)	
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 <t< td=""><td>1.0</td><td>0.010</td><td>9.0</td><td>6.2</td></t<>	1.0	0.010	9.0	6.2	
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 47.0 2.21 0.49			8.8	5.6	
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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 0.75 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	1.8			4.4	
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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 2.73 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 <td< td=""><td>4.7</td><td>0.023</td><td>7.4</td><td>2.8</td></td<>	4.7	0.023	7.4	2.8	
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 2.73 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 <td>5.6</td> <td>0.024</td> <td>7.0</td> <td>2.6</td>	5.6	0.024	7.0	2.6	
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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 0.23 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	12.0	0.068	3.9	1.7	
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		0.17	1.9	1.1	
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	47.0	0.215	1.77	0.93	
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	68.0	0.305	1.43	0.82	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	82.0		1.14	0.75	
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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	150.0		0.82	0.58	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	180.0	0.809	0.75		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	220.0	1.10		0.48	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	270.0			0.43	
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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	

Note

Contact factory for values up to 10 000 µH

FEATURES

Flame retardant encapsulant (UL 94 V-0)



- Completely encapsulated winding provides superior environmental protection and moisture resistance
- 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
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

APPLICATIONS

Excellent power line noise filters, filters for switching regulated power supplies, DC/DC converters, SCR, and triac controls and RFI suppression.

ELECTRICAL SPECIFICATIONS

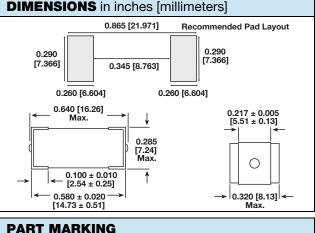
Inductance: Measured at 1 V with no DC current Inductance Tolerance: ± 15 %

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



PARI MARKIN

- Model
- Inductance value
 Date code

DESCRIPTION IHSM-5832 3.9 µH ± 15 % ER e3 MODEL INDUCTANCE VALUE PACKAGE CODE JEDEC[®] LEAD (Pb)-FREE STANDARD INDUCTANCE TOLERANCE **GLOBAL PART NUMBER** 5 2 н Μ 8 3 Е R 3 R 9 L S L PRODUCT FAMILY SIZE PACKAGE INDUCTANCE TOL CODE VALUE Revision: 27-Jan-2020 Document Number: 34020 1

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