Vishay Dale



## **High Current, Surface Mount Inductor**



STANDARD ELECTRICAL SPECIFICATIONS			
IND. at 1 kHz (µH)	DCR MAX. (Ohms)	RATED CURRENT (Max. Amps)	INCREMENTAL CURRENT (Amps Approx.)
1.0 1.2 1.5 1.8 2.2 2.7 3.3 3.9 4.7 5.6 6.8 8.2 10.0 12.0 15.0 18.0 22.0 27.0 33.0 39.0 47.0 56.0 68.0 82.0 100.0 120.0 150.0 180.0 220.0 270.0 330.0 390.0 47.0 560.0 180.0 220.0 270.0 330.0 390.0 470.0 560.0 180.0 220.0 270.0 330.0 390.0 470.0 560.0 180.0 220.0 270.0 330.0 390.0 470.0 560.0 180.0 220.0 270.0 330.0 390.0 470.0 560.0 180.0 220.0 270.0 330.0 390.0 470.0 560.0 180.0 220.0 270.0 330.0 390.0 470.0 560.0 180.0 220.0 270.0 330.0 390.0 470.0 560.0 180.0 220.0 270.0 330.0 390.0 470.0 560.0 180.0 220.0 270.0 330.0 390.0 470.0 560.0 390.0 470.0 560.0 390.0 470.0 560.0 390.0 470.0 560.0 390.0 470.0 560.0 390.0 470.0 560.0 390.0 470.0 560.0 390.0 470.0 560.0 390.0 470.0 560.0 390.0 470.0 560.0 390.0 470.0 560.0 390.0 470.0 560.0 390.0 470.0 560.0 390.0 470.0 560.0 150	0.010 0.011 0.012 0.013 0.015 0.017 0.020 0.021 0.023 0.024 0.038 0.047 0.053 0.068 0.078 0.083 0.12 0.14 0.17 0.19 0.215 0.236 0.305 0.357 0.452 0.305 0.357 0.452 0.530 0.609 0.809 1.10 1.27 1.42 1.89 2.21 2.42 2.73 3.78 4.20 5.51 7.35 8.66 9.71 11.29 15.60 20.74 23.10 ry for values abov	9.0 8.8 8.7 8.6 8.5 8.4 8.3 7.9 7.4 7.0 6.1 5.1 4.3 3.9 3.5 3.2 2.8 2.3 1.9 1.8 1.77 1.71 1.43 1.14 0.95 0.88 0.82 0.75 0.69 0.54 0.59 0.54 0.59 0.54 0.59 0.54 0.59 0.54 0.59 0.54 0.59 0.54 0.59 0.54 0.59 0.54 0.59 0.54 0.59 0.54 0.59 0.54 0.40 0.59 0.54 0.40 0.59 0.54 0.40 0.59 0.54 0.40 0.59 0.54 0.40 0.59 0.54 0.40 0.59 0.54 0.40 0.59 0.54 0.40 0.59 0.54 0.40 0.59 0.54 0.40 0.59 0.54 0.40 0.59 0.54 0.40 0.59 0.54 0.40 0.59 0.54 0.40 0.59 0.54 0.40 0.59 0.54 0.59 0.54 0.40 0.59 0.54 0.40 0.59 0.54 0.41 0.59 0.54 0.59 0.54 0.59 0.54 0.43 0.40 0.59 0.54 0.43 0.41 0.59 0.54 0.59 0.52 0.22 0.25 0.29 0.25 0.29 0.25 0.29 0.25 0.29 0.25 0.29 0.25 0.29 0.25 0.29 0.25 0.29 0.22 0.20 0.21 0.14	$\begin{array}{c} 6.2\\ 5.6\\ 5.0\\ 4.4\\ 4.0\\ 3.7\\ 3.4\\ 3.1\\ 2.8\\ 2.6\\ 2.3\\ 2.0\\ 1.8\\ 1.7\\ 1.6\\ 1.5\\ 1.3\\ 1.2\\ 1.1\\ 1.03\\ 0.93\\ 0.90\\ 0.82\\ 0.75\\ 0.68\\ 0.63\\ 0.54\\ 0.48\\ 0.43\\ 0.31\\ 0.28\\ 0.25\\ 0.23\\ 0.21\\ 0.19\\ 0.17\\ 0.16\\ 0.14\\ 0.13\\ 0.12\\ 0.11\\ 0.10\\ \end{array}$

### FEATURES

- Flame retardant encapsulant (UL 94V-0)
- Completely encapsulated winding provides superior environmental protection and moisture resistance
   Completely encapsulated winding provides
- High current unit in surface mount package printed with model, inductance value and date code
  Compatible with infrared or conventional reflow
- Compatible with infrared or conventional reflow soldering methods
   Piekend place compatible
- Pick and place compatible

# Tape and reel packaging for automatic handling 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 volt 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

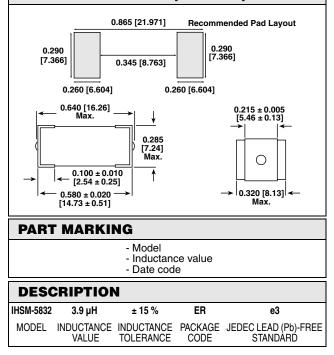
**Operating Temperature:** - 55 °C to + 125 °C (no load); - 55 °C to + 85 °C (at full rated current)

### MATERIAL SPECIFICATIONS

**Core:** High resistivity ferrite core

Encapsulant: Epoxy Terminals: 100 % Sn over Ni

**DIMENSIONS** in inches [millimeters]



SAP PART NUMBERING GUIDELINES (INTERNAL) 9 Μ R 3 Т н S 5 8 3 2 Е R L PACKAGE INDUCTANCE TOL PRODUCT FAMILY SIZE VALUE CODE



Vishay

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