

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



STANDARD ELECTRICAL SPECIFICATIONS			
IND. at 1 kHz (µH)	DCR MAX. (Ohms)	RATED CURRENT (Max. Amps)	INCREMENTAL CURRENT (Amps Approx.)
$\begin{array}{c} 1.0\\ 1.2\\ 1.5\\ 1.8\\ 2.2\\ 2.7\\ 3.3\\ 3.9\\ 4.7\\ 5.6\\ 6.8\\ 8.2\\ 10.0\\ 12.0\\ 15.0\\ 15.0\\ 15.0\\ 15.0\\ 15.0\\ 27.0\\ 33.0\\ 39.0\\ 47.0\\ 56.0\\ 68.0\\ 82.0\\ 100.0\\ 150.0\\ 180.0\\ 220.0\\ 270.0\\ 330.0\\ 390.0\\ 470.0\\ 560.0\\ 330.0\\ 330.0\\ 390.0\\ 470.0\\ 560.0\\ 680.0\\ 820.0\\ 1000.0\\ \end{array}$	$\begin{array}{c} 0.013\\ 0.018\\ 0.02\\ 0.021\\ 0.029\\ 0.034\\ 0.038\\ 0.042\\ 0.047\\ 0.051\\ 0.058\\ 0.063\\ 0.071\\ 0.079\\ 0.089\\ 0.119\\ 0.152\\ 0.179\\ 0.222\\ 0.315\\ 0.362\\ 0.397\\ 0.446\\ 0.604\\ 0.672\\ 0.735\\ 0.998\\ 1.37\\ 1.58\\ 1.77\\ 2.51\\ 2.73\\ 3.36\\ 3.75\\ 4.31\\ 6.04\\ 6.9\\ \end{array}$	$\begin{array}{c} 8.6\\ 7.6\\ 6.9\\ 6.5\\ 5.7\\ 5.1\\ 4.6\\ 4.3\\ 4.0\\ 3.8\\ 3.5\\ 3.3\\ 3.1\\ 2.7\\ 2.3\\ 1.9\\ 1.7\\ 1.6\\ 1.3\\ 1.07\\ 0.95\\ 0.8\\ 0.73\\ 0.66\\ 0.5\\ 0.46\\ 0.41\\ 0.37\\ 0.34\\ 0.32\\ 0.3\\ 0.28\\ 0.24\\ \end{array}$	$\begin{array}{c} 4.1\\ 3.8\\ 3.5\\ 3.2\\ 2.9\\ 2.6\\ 2.4\\ 2.2\\ 2.0\\ 1.9\\ 1.7\\ 1.5\\ 1.4\\ 1.3\\ 1.2\\ 1.1\\ 1.02\\ 0.95\\ 0.88\\ 0.8\\ 0.74\\ 0.68\\ 0.62\\ 0.56\\ 0.5\\ 0.45\\ 0.4\\ 0.35\\ 0.32\\ 0.3\\ 0.28\\ 0.26\\ 0.24\\ 0.23\\ 0.2\\ 0.17\\ 0.15\\ \end{array}$

## PART MARKING - Model - Inductance value

- Date code

#### FEATURES

- Flame retardant encapsulant (UL 94V-0)
  Completely encapsulated winding provides
  - superior environmental protection and moisture resistance



- High current unit in surface mount package 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

#### APPLICATIONS

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

#### **ELECTRICAL SPECIFICATIONS**

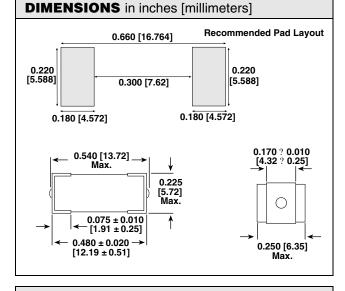
Inductance:Measured at 1 volt with no DC current Inductance Tolerance:  $\pm$  15 % Incremental Current:The typical current at which the inductance will be decreased by 5 % from its initial zero DC value

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

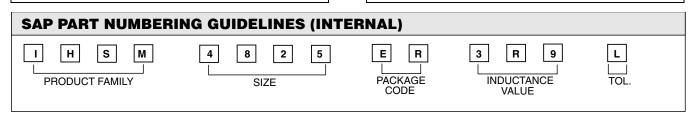
#### **MATERIAL SPECIFICATIONS**

Core: High resistivity ferrite core Encapsulant: Epoxy

Terminals: 100 % Sn over Ni



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





Vishay

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