

Vishay Dale

# **Low Profile, High Current Inductors**



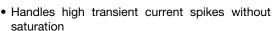
STANDARD ELECTRICAL SPECIFICATIONS				
$\begin{array}{c} L_0\\ \text{INDUCTANCE}\\ \pm20~\%~\text{AT}~100~\text{kHz},\\ 0.25~\text{V},~0~\text{A}\\ (\mu\text{H}) \end{array}$	DCR TYP. 25 °C (mΩ)	DCR MAX. 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. (A) <sup>(3)</sup>	SATURATION CURRENT DC TYP. (A) <sup>(4)</sup>
2.2	82	98	1.9	1.7
3.3	100	120	1.7	1.5
4.7	130	156	1.4	1.2
6.8	190	228	1.2	1.0
10.0	280	336	1.0	0.8
22.0	630	756	0.67	0.55

### **Notes**

- (1) All test data is referenced to 25 °C ambient
- (2) Operating temperature range 55 °C to + 125 °C
- $^{(3)}$  DC current (A) that will cause an approximate  $\Delta T$  of 40 °C  $^{(4)}$  DC current (A) that will cause L0 to drop approximately 30 %
- (5) The part temperature (ambient + temp. rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

### **FEATURES**

- Shielded construction
- Frequency range up to 5.0 MHz

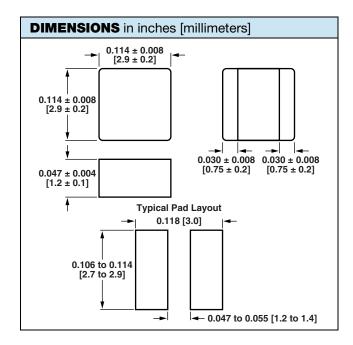


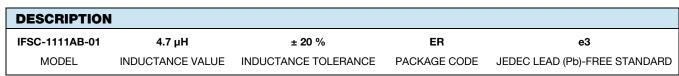


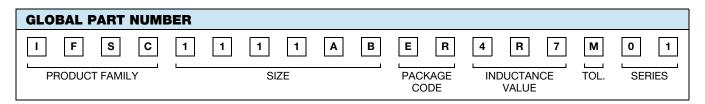
• Compliant to RoHS directive 2002/95/EC

### **APPLICATIONS**

- PDA/notebook/desktop/server applications
- High current POL converters
- Low profile, high current power supplies
- · Battery powered devices
- DC/DC converters in distributed power systems
- DC/DC converter for field programmable gate array (FPGA)











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