# IFSC-1515AH-01



### Vishay Dale

### Low Profile, High Current Inductors



STANDARD ELECTRICAL SPECIFICATIONS						
L <sub>0</sub> INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (μH)	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>		
0.56	17	22	5.40	5.50		
1.0	20	25	3.80	3.80		
1.2	25	30	3.60	3.60		
2.2	35	45	3.00	3.00		
3.3	45	56	2.70	2.40		
4.7	70	90	2.20	2.00		
6.8	90	115	1.90	1.50		
8.2	105	132	1.40	1.40		
10.0	135	170	1.30	1.30		
15.0	185	222	1.25	1.00		
22.0	250	315	1.20	0.83		
33.0	405	486	0.90	0.68		
47.0	495	594	0.80	0.56		

#### Notes

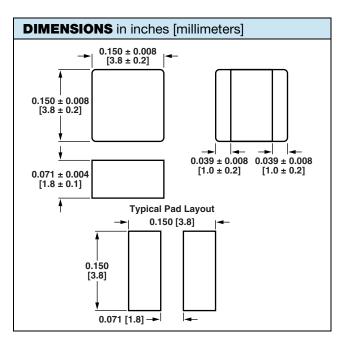
- <sup>(1)</sup> All test data is referenced to 25 °C ambient
- <sup>(2)</sup> Operating temperature range 55 °C to + 125 °C
- $^{(3)}$  DC current (A) that will cause an approximate  $\Delta T$  of 40 °C
- $^{(4)}\,$  DC current (A) that will cause  $L_0$  to drop approximately 30  $\,\%$
- (5) The 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**

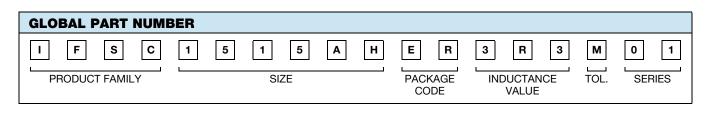
- Shielded construction
- Frequency range up to 5.0 MHz
- Handles high transient current spikes without COMPLIANT saturation
- Compliant to RoHS Directive 2002/95/EC

#### **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)



DESCRIPTION	l			
IFSC-1515AH-01	3.3 µH	± 20 %	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD







Vishay

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