IFSC-1111AB-01

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Vishay Dale

Low Profile, High Current Inductors



STANDARD ELECTRICAL SPECIFICATIONS									
L ₀ 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) ⁽³⁾	SATURATION CURRENT DC TYP. (A) ⁽⁴⁾					
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

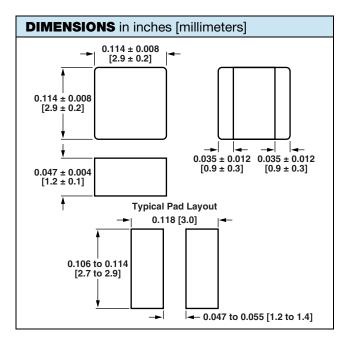
- ⁽³⁾ DC current (A) that will cause an approximate ΔT of 40 °C
- $^{(4)}\,$ DC current (A) that will cause L_0 to drop approximately 30 %
- ⁽⁵⁾ The part temperature (ambient + temp. rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size 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 saturation
 RoHS
 COMPLIANT
 HALOGEN
- Material categorization: For definitions of **FREE** compliance please see <u>www.vishay.com/doc?99912</u>

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							
IFSC-1111AB-01	4.7 μH	± 20 %	ER	e3			
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD			

GLOBAL PART NUMBER								
I F S C	1 1 1 1	AB	ER	4 R 7	M 0 1			
PRODUCT FAMILY	SIZE	1	PACKAGE CODE	INDUCTANCE VALUE	TOL. SERIES			

Revision: 16-May-12

Document Number: 34292

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