

Vishay Dale

Commercial Inductors, Ultra Low DCR, High Saturation Series



LINKS TO ADDITIONAL RESOURCES



STANDARD ELECTRICAL SPECIFICATIONS								
L ₀ INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A	DCR ±5% AT 25°C (mΩ)	HEAT RATING CURRENT DC (A) ⁽¹⁾	SATURATION CURRENT DC (A)		SRF TYP.			
(μH)	TYP.	TYP.	TYP. ⁽²⁾	TYP. ⁽³⁾	(MHz)			
0.033	1.15	37	41	62	856			
0.068	3.20	22	30	41	418			

Notes

- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +125 °C
- 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
- ⁽¹⁾ DC current (A) that will cause an approximate ΔT of 40 °C
- $^{(2)}$ DC current (A) that will cause L₀ to drop approximately 20 %
- ⁽³⁾ DC current (A) that will cause L_0 to drop approximately 30 %

FEATURES

- Lowest DCR/µH, in this package size
- Shielded construction
- Excellent DC/DC energy storage up to 5 MHz. Filter inductor applications up the SRF (see Standard Electrical Specifications table)



COMPLIANT

HALOGEN

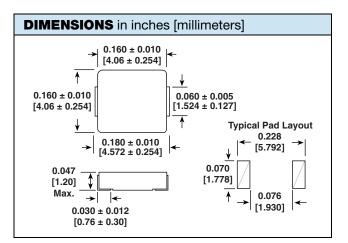
FREE GREEN

(5-2008)

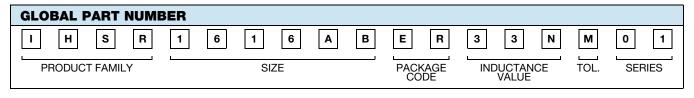
- · Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- Patent pending
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

APPLICATIONS

- Notebook / desktop / server applications
- High current POL converters
- · Low profile, high current power supplies
- High current, high frequency multi-phase DC/DC Converters
- DC/DC converters in distributed power systems



DESCRIPTION							
IHSR-1616AB-01	0.033 µH	± 20 %	ER	e3			
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC [®] LEAD (Pb)-FREE STANDARD			
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC [®] LEAD (Pb)-FREE STAI			



Revision: 27-Aug-2020

For technical questions, contact: magnetics@vishay.com

Document Number: 34502

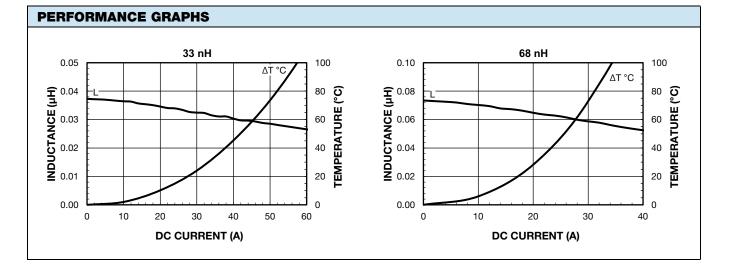
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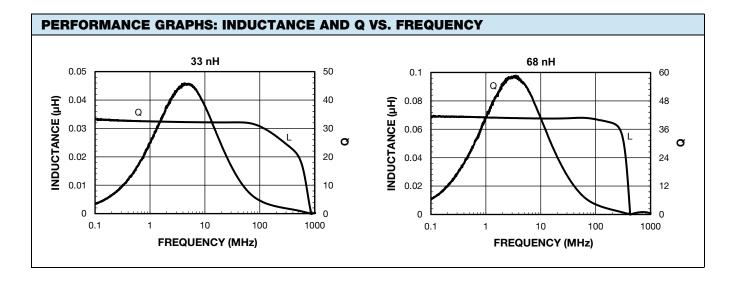
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