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Vishay Dale

Ultra Low DCR Inductors, High Current, Vertical Mount Series



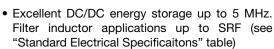
STANDARD ELECTRICAL SPECIFICATIONS					
L ₀ INDUCTANCE AT 100 kHz, 0.1 V, 0 A	DCR ± 7 % 25 °C	HEAT RATING CURRENT DC TYP.	SATURATION CURRENT DC TYP. (A)		SRF TYP.
(μĤ)	(m Ω)	(A) ⁽¹⁾	(2)	(3)	(MHz)
0.12	0.24	90	91	130	112

Notes

- All test data is referenced to 25 °C ambient
- Operating temperature range -40 °C to +155 °C
- The part temperature (ambient + temp. rise) should not exceed 155 °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 L_0 to drop approximately 20 %
- $^{(3)}$ DC current (A) that will cause L $_{0}$ to drop approximately 30 %

FEATURES

- High temperature rating, up to 155 °C
- · Shielded construction



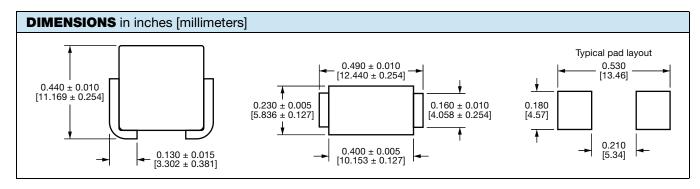


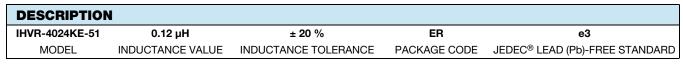
RoHS COMPLIANT

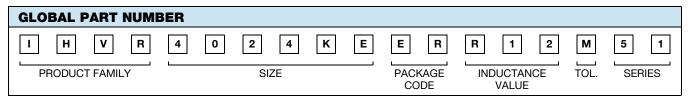
- Lowest DCR/µH, in this package size
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- Patent pending
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

APPLICATIONS

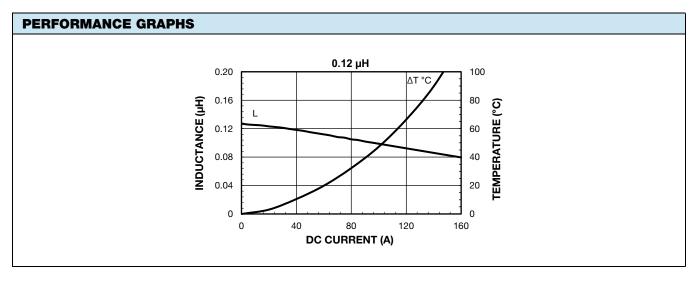
- · Desktop / server applications
- High current POL converters
- · Low profile, high current power supplies
- · Battery powered devices
- DC/DC converters in distributed power systems
- DC/DC converter for Field Programmable Gate Array (FPGA)

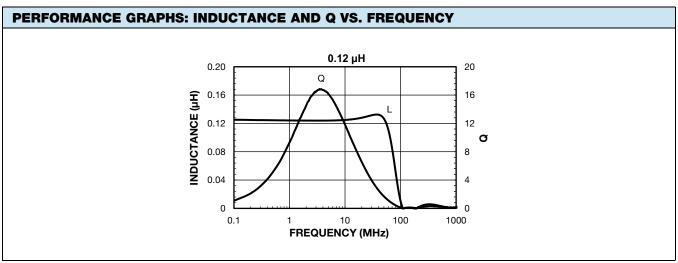














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