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Vishay Dale

Commercial Inductors, High Temperature (155 °C) Series



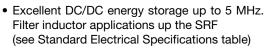
LINKS TO ADDITIONAL RESOURCES





FEATURES

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





(5-2008)

- 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 <u>www.vishay.com/doc?99912</u>

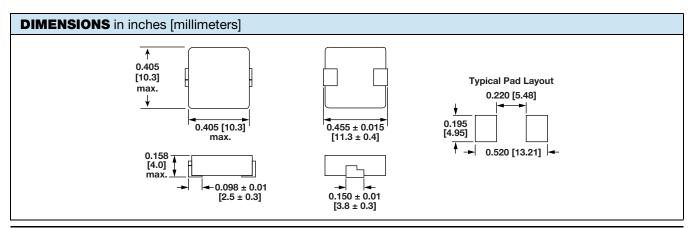
APPLICATIONS

- 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

STANDARD ELECTRICAL SPECIFICATIONS									
	L ₀ INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A	DCR AT 25 °C (mΩ)		HEAT RATING CURRENT DC (A) (1) (A)		ENT DC	SRF TYP.		
PART NUMBER	(μ H)	TYP.	MAX.	TYP.	TYP. (2)	TYP. (3)	(MHz)		
IHSR4040DZERR13M51	0.13	0.54	0.58	72.0	63.0	92.0	151		

Notes

- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °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 $^{\circ}C$
- (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 %



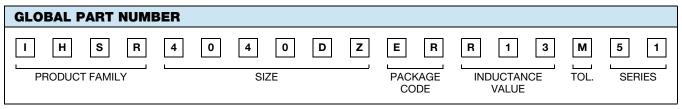
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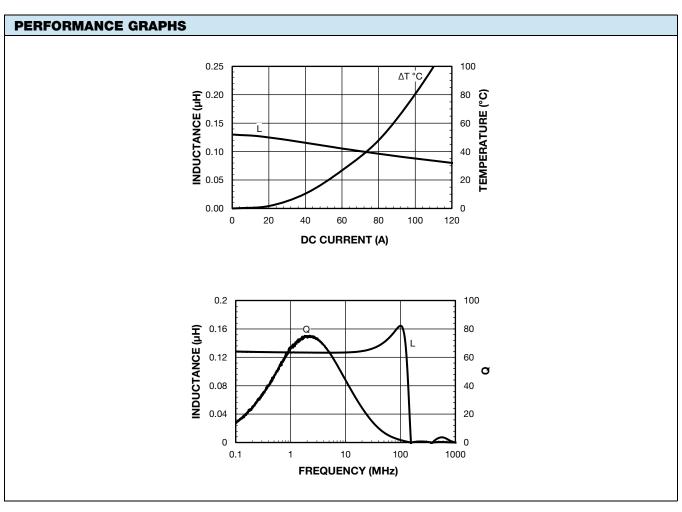


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DESCRIPTION							
IHSR-4040DZ-51	0.13 μΗ	± 20 %	ER	e3			
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD			





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