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Vishay Dale

AUTOMOTIVE GRADE

RoHS COMPLIANT

HALOGEN

FREE

Low-Profile, High-Current Coupled Inductor



Manufactured under one or more of the following: US Patents; 6,198,375/6,204,744/6,449,829/6,460,244. Several foreign patents, and other patents pending.

STANDARD ELECTRICAL SPECIFICATIONS					
	L ₀ INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (μH)	DCR NOM. 25 °C (mΩ)	DCR MAX. 25 °C (mΩ)	CURRENT	SATURATION CURRENT DC TYP. (A) ⁽⁴⁾
L ₁₋₂	47	241.0	257.5	2.2	2.7
L ₃₋₄	47	248.0	265.2	2.2	2.8
L ₁₋₄ (L ₂₋₃ shorted)	188	489.0	523.0	1.4	1.4
L ₁₋₃ (L ₂₋₄ shorted)	8.0	489.0	523.0	1.4	See note ⁽⁶⁾
L _{Common Mode} (1-3 and 2-4 shorted)	47	125.0	133.0	3.3	3.2
L _{Differential Mode} (1-4 and 2-3 shorted)	1.855	125.0	133.0	3.3	See note (6)

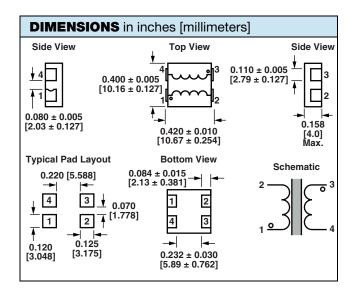
- All test data is referenced to 25 °C ambient
- Operating temperature range -55 °C to +155 °C
- DC current (A) that will cause an approximate ΔT of 40 °C
- (4) DC current (A) that will cause L₀ to drop approximately 20 %
- The part temperature (ambient + temp. rise) should not exceed 155 °C under worst 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.
- In this configuration, current flowing opposite directions through coils cancels and the 8.0 µH inductance is very stable with varying current. Observe the heat rating current to avoid excessive temperature rise in this configuration.

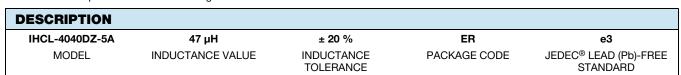
FEATURES

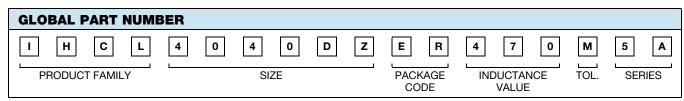
- High temperature, up to 155 °C
- · Shielded construction
- Frequency range up to 5.0 MHz
- Lowest DCR/µH in this package size
- Handles high transient current spikes without saturation
- · Ultra low buzz noise, due to composite
- **GREEN** construction
- Coupling is > 90 % optimized for SEPIC converters
- AEC-Q200 qualified
- · Material categorization: For definitions of compliance please see www.vishav.com/doc?99912

APPLICATIONS

- SEPIC converters
- DC/DC converters
- Common mode applications
- LED lighting

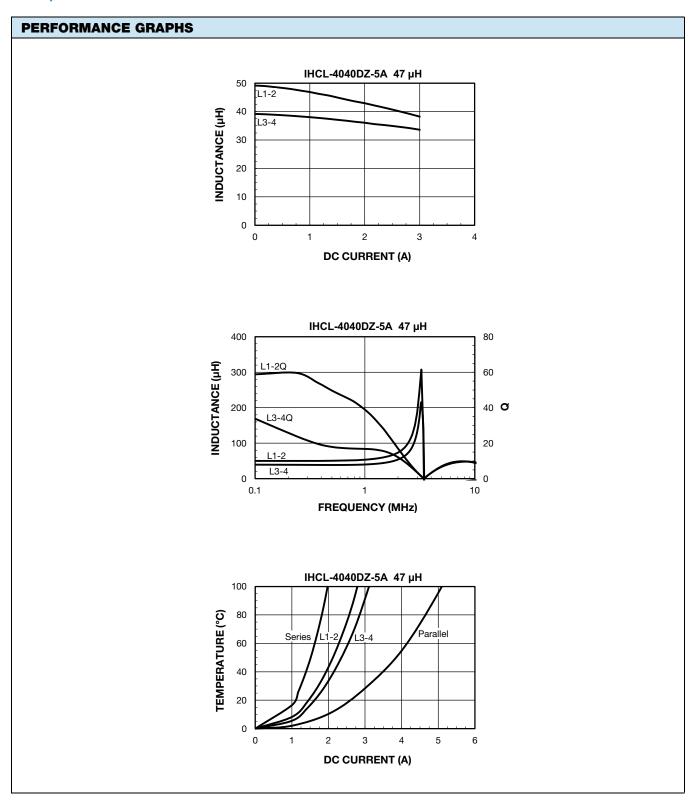






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Legal Disclaimer Notice



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Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.

Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

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>>Vishay(威世)