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Vishay Dale

Ultra Small Footprint, High Current Inductors



LINKS TO ADDITIONAL RESOURCES



FEATURES

- Composite powdered iron construction
- Miniature 1.6 mm x 0.8 mm x 0.8 mm size
- Magnetic shielded
- Low DCR and core loss for improved efficiency
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>



RoHS COMPLIANT HALOGEN FREE GREEN (5-2008)

APPLICATIONS

- Portable electronics
- Tablets and notebook computers
- POL DC/DC converters
- Battery powered devices
- Internet of things (IoT) devices

STANDARD ELECTRICAL SPECIFICATIONS						
PART NUMBER	L ₀ INDUCTANCE ± 20 % AT 1 MHz, 1.0 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⁾	
IHHP0603ZHERR47M01	0.47	36	43	3.3	3.4	
IHHP0603ZHER1R0M01	1.0	95	110	2.0	2.3	

Notes

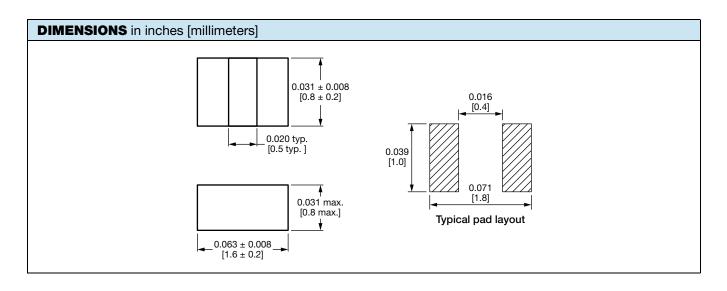
⁽¹⁾ All test data is referenced to 25 °C ambient

(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



Revision: 10-Jun-2024

1 For technical questions, contact: <u>magnetics@vishay.com</u> Document Number: 34589

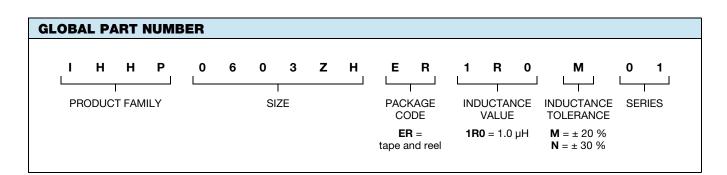
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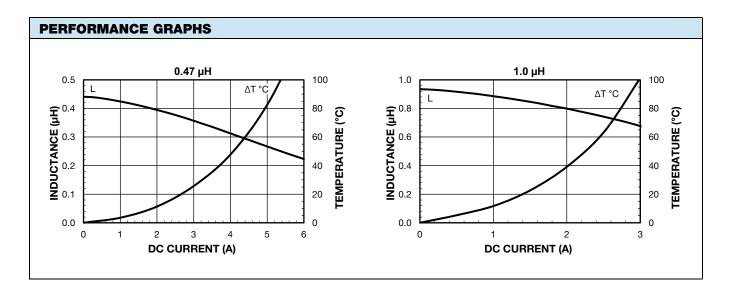
IHHP-0603ZH-01

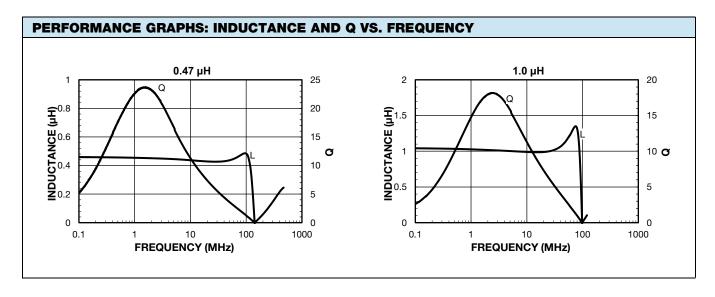
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DESCRIPTION

IHHP-0603ZH-01	1.0 µH	± 20 %	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC [®] LEAD (Pb)-FREE STANDARD







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Revision: 01-Jul-2024