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Vishay Dale

FREE GREEN

(5-2008)

Commercial Power Inductor, High Voltage, SMD, High Temperature 180 °C



FEATURES

- Isolation voltage rating 1.5 kV_{DC}
- Third header pin for added mechanical mounting stability when soldered
- Soft saturation maximizes ripple control at high currents
- High temperature continuous operation up to 180 °C
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

APPLICATIONS

- · Battery charging circuits
- · High voltage inverters and systems
- Power factor correction (PFC)
- · High voltage DC battery filter

LINKS TO ADDITIONAL RESOURCES





MATERIAL SPECIFICATIONS

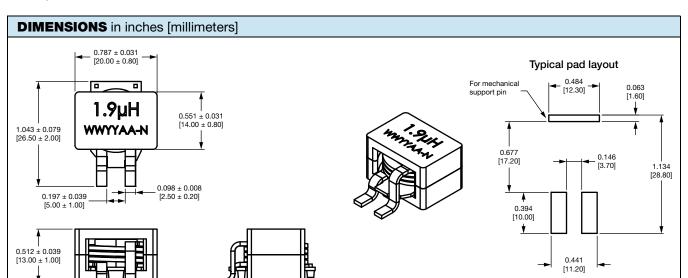
- · Core: powdered iron alloy
- Wire: 200 °C polyamide insulated copper
- Coilform insulator material: black polyamide plastic
- Plating: terminals solder dipped in tin alloy (Sn99.3Cu0.7), mounting pin electroplated with 100 % matte tin
- Weight: 19.2 g

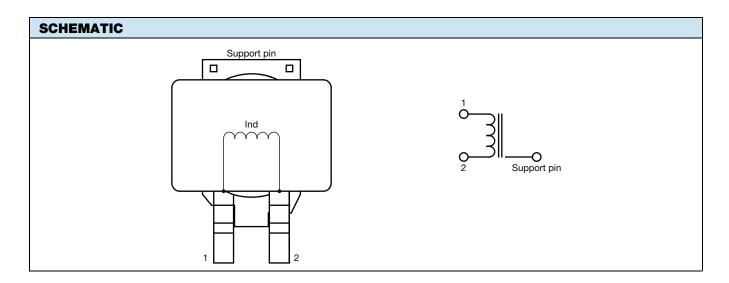
STANDARD ELECTRICAL SPECIFICATIONS							
	L ₀ INDUCTANCE ± 20 % AT 0.25 V, 100 kHz, 0 A	DCR AT 25 °C (mΩ)	DCR AT 25 °C (mΩ)	HEAT RATING CURRENT DC (A) ⁽¹⁾	SATURATION CURRENT DC (A) ⁽²⁾		SRF TYP.
PART NUMBER	(μH)	TYP.	MAX.	TYP.	20 % DROP	30 % DROP	(MHz)
IHDV0808ACES1R9M30	1.9	1.3	1.5	30.0	80.0	110.0	83

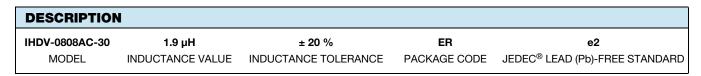
Notes

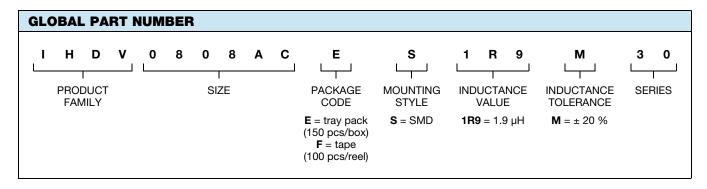
- All test data is referenced to 25 °C ambient
- Operating temperature range -40 °C to +180 °C
- The part temperature (ambient + temperature rise) should not exceed the maximum rating under worst case operating conditions. Circuit
 design, component placement, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part
 temperature should be verified in the end application
- Isolation voltage rating (coil to core or coil to mounting pin) = 1.5 kV_{DC} max.
- ⁽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 % and 30 %, respectively



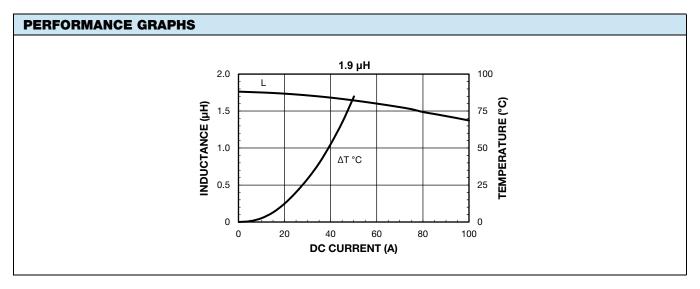


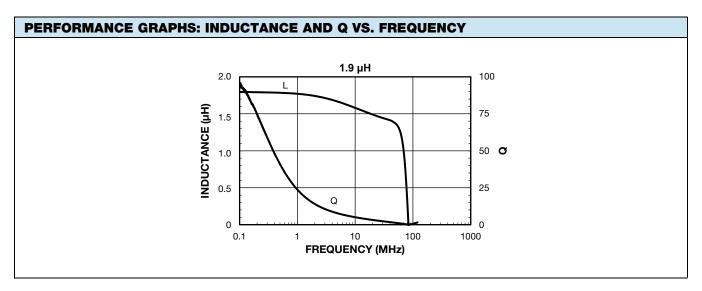














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