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Vishay Dale

IHLP® Automotive Inductors, High Temperature (155 °C) Series



LINKS TO ADDITIONAL RESOURCES





STANDARD ELECTRICAL SPECIFICATIONS								
L ₀ INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (μH)	DCR TYP. 25 °C (mΩ)	DCR MAX. 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. (A) ⁽¹⁾	SATURATION CURRENT DC TYP. (A) (2)	SRF TYP. (MHz)			
0.33	1.05	1.12	36.00	20.80	70.00			
0.47	1.30	1.39	35.50	20.30	65.00			
0.68	2.00	2.14	27.00	19.10	48.73			
1.0	2.35	2.50	26.70	17.61	39.85			
2.2	4.59	4.91	18.40	17.58	25.01			
3.3	7.42	7.94	14.80	14.30	20.00			
4.7	11.00	11.77	11.50	11.90	16.45			
8.2	20.90	22.36	8.61	11.10	12.55			
10	26.00	27.82	7.45	6.37	12.01			
15	36.70	39.27	6.50	5.17	8.17			
22	46.00	49.22	5.53	4.99	7.23			
33	74.00	79.18	4.40	4.40	6.07			
47	119.50	127.87	3.60	3.60	4.60			
75	204.00	214.20	2.74	3.51	3.53			

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
- Rated operating voltage (across inductor) = 75 V
- $^{(1)}$ DC current (A) that will cause an approximate ΔT of 40 $^{\circ}C$
- $^{(2)}\,$ DC current (A) that will cause L_0 to drop approximately 20 %

FEATURES

- High temperature, up to 155 °C
- · Shielded construction
- Handles high transient current spikes without saturation
- Ultra low buzz noise, due to composite construction
- AEC-Q200 qualified
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



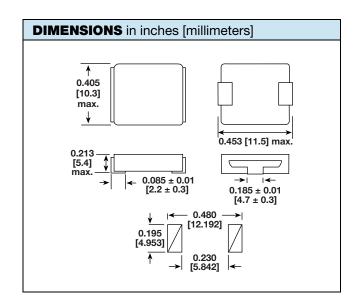


ROHS COMPLIANT HALOGEN FREE GREEN

<u>(5-2008)</u>

APPLICATIONS

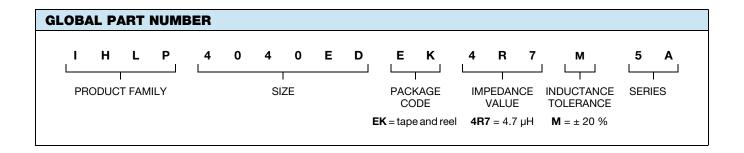
- · Engine and transmission control units
- · Diesel injection drivers
- DC/DC converters for entertainment / navigation systems
- Noise suppression for motors: windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- LED drivers





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DESCRIPTION							
IHLP-4040ED-5A	4.7 μΗ	± 20 %	EK	e3			
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD			



PACKAGE CODE OPTIONS

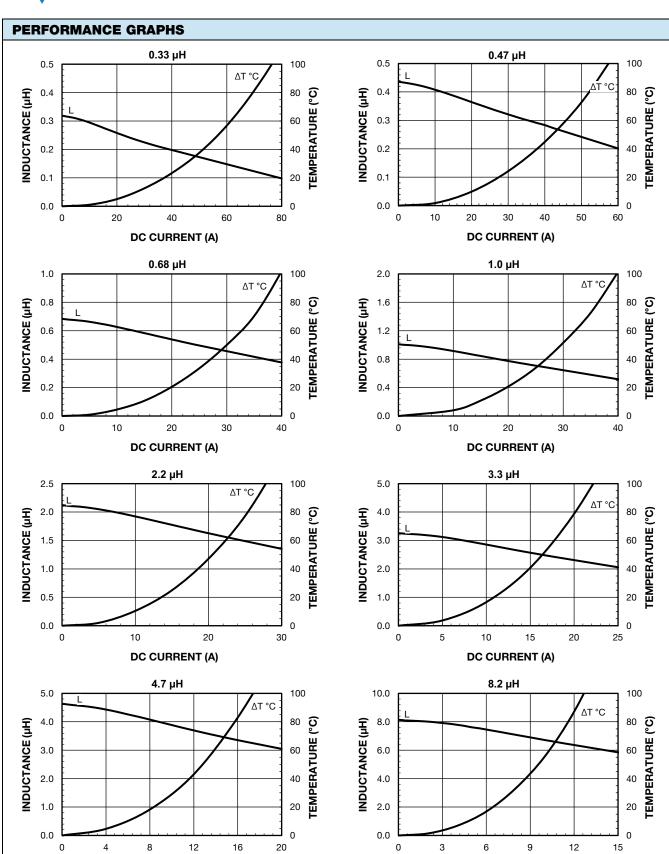
EK = tape and reel packaging (700 pcs on 13-inch reel)

ER = tape and reel packaging (500 pcs on 13-inch reel)

Note

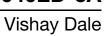
• For additional packaging details see "Packaging Methods"



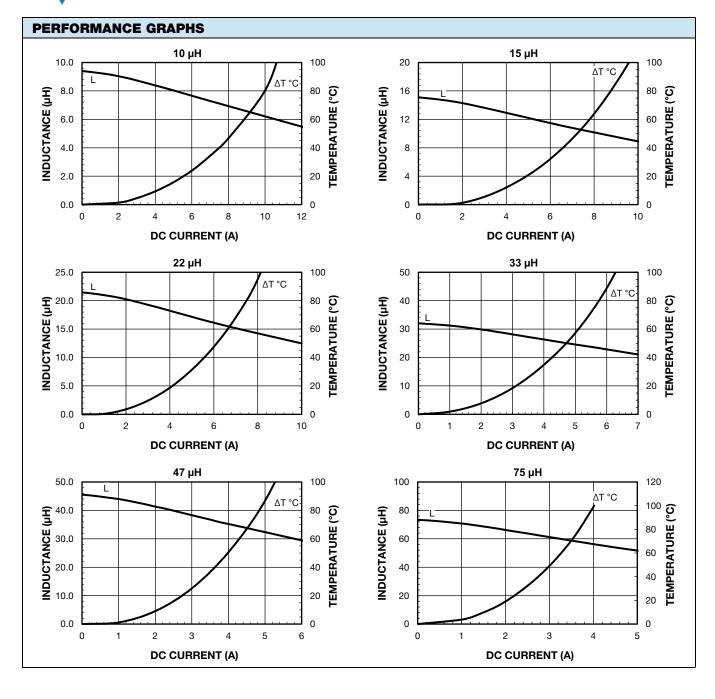


DC CURRENT (A)

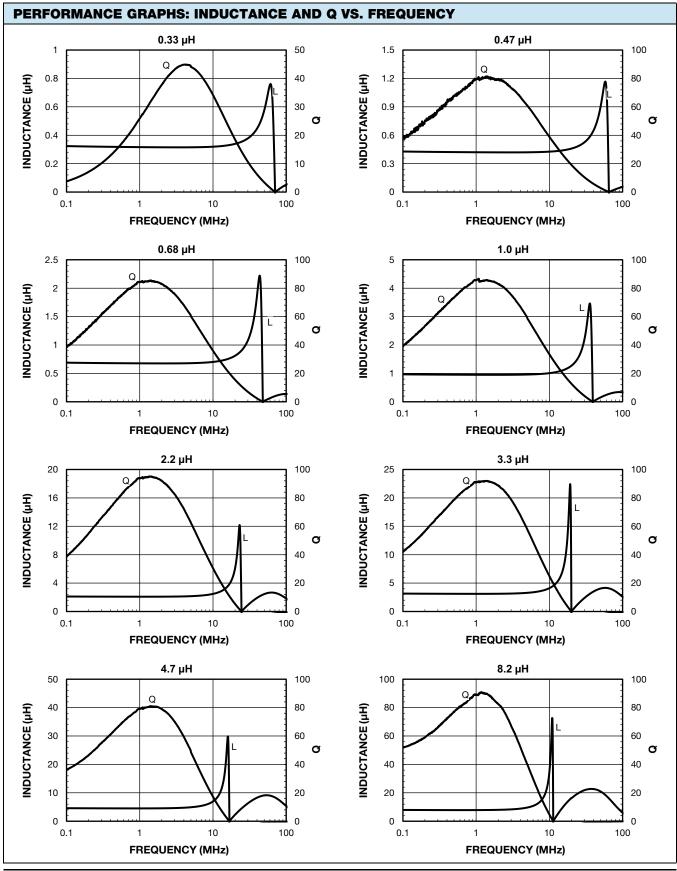
DC CURRENT (A)





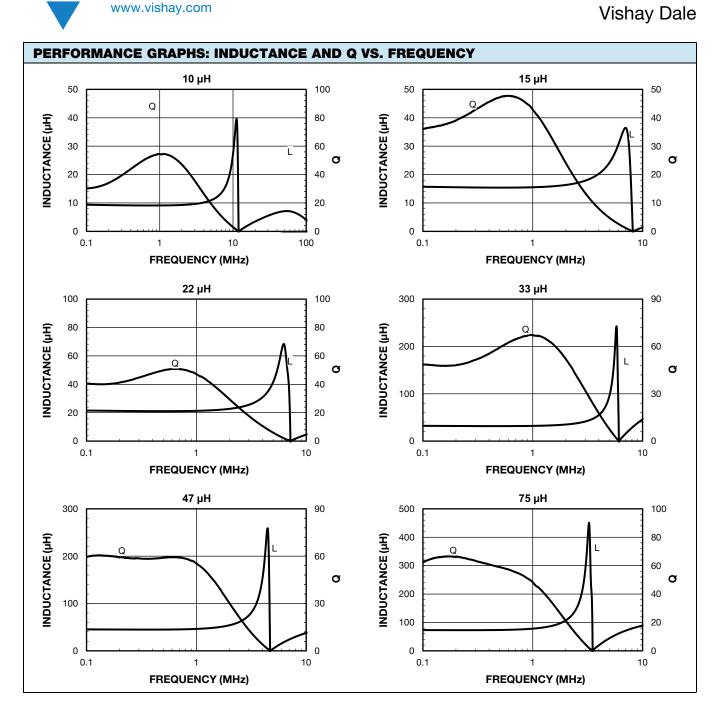








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