SGIHLP® - Space Grade (MIL-STD-981 Compliant) **IHLP®** Inductors



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)
0.22	4.12	4.41	18	11	190
0.33	5.07	5.53	16	9.8	117
0.47	6.19	6.63	14.5	8.7	94.8
0.68	9.28	9.93	11.3	8.2	77.7
1.0	11.68	12.29	10.8	8	60.7
1.5	18	19.8	7.9	7.1	49.2
2.2	24.7	26	6.6	6.3	39.8
3.3	44.0	47.0	5.3	5.5	33.4
4.7	72.8	78.3	4.1	3.7	23.8
6.8	104	111	3.2	2.2	18.8
10	132	138	2.8	1.6	15.9
15	195	208	2.4	1.6	14.1

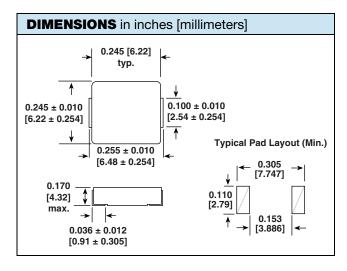
- All test data is referenced to 25 °C ambient
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 Operating temperature range -55 °C to +180 °C
 The part temperature (ambient + temp. rise) should not exceed
 180 °C under worst case operating conditions. Circuit design,
 component placement, PWB trace 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) = 50 V
- Maximum net weight = 0.75 g
- DC current (A) that will cause an approximate ΔT of 40 °C
- DC current (A) that will cause L₀ to drop approximately 20 %

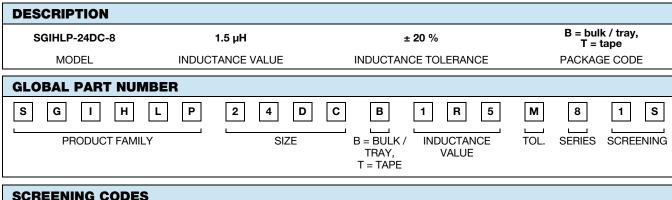
FEATURES

- MIL-STD-981 class S compliant (see "Screening Codes")
- High temperature rating, up to 180 °C
- Shielded construction
- Lowest DCR/µH, in this package size
- Handles high transient current spikes without saturation
- Low profile package with high current saturation levels
- IHLP design; PATENT(S): www.vishav.com/patents

APPLICATIONS

- · Low profile, high current power supplies
- · High current POL converters
- DC/DC converters in distributed power systems
- Power converter for solar panels
- Noise suppression





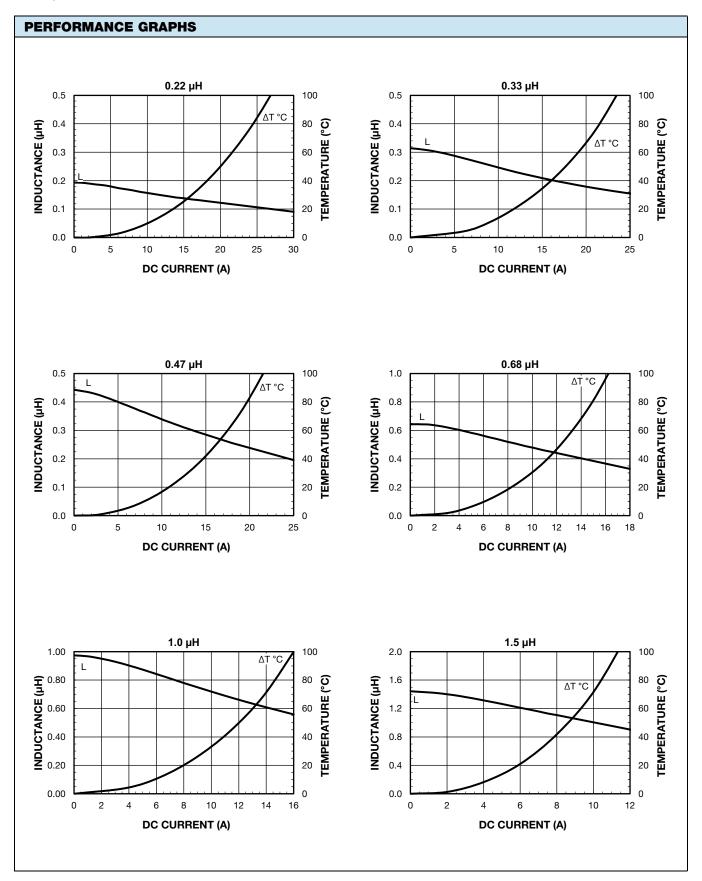
1S: MIL-STD-981 group A and B (full screen) 1P: basic production screen, product is not MIL-STD-981 compliant (1)

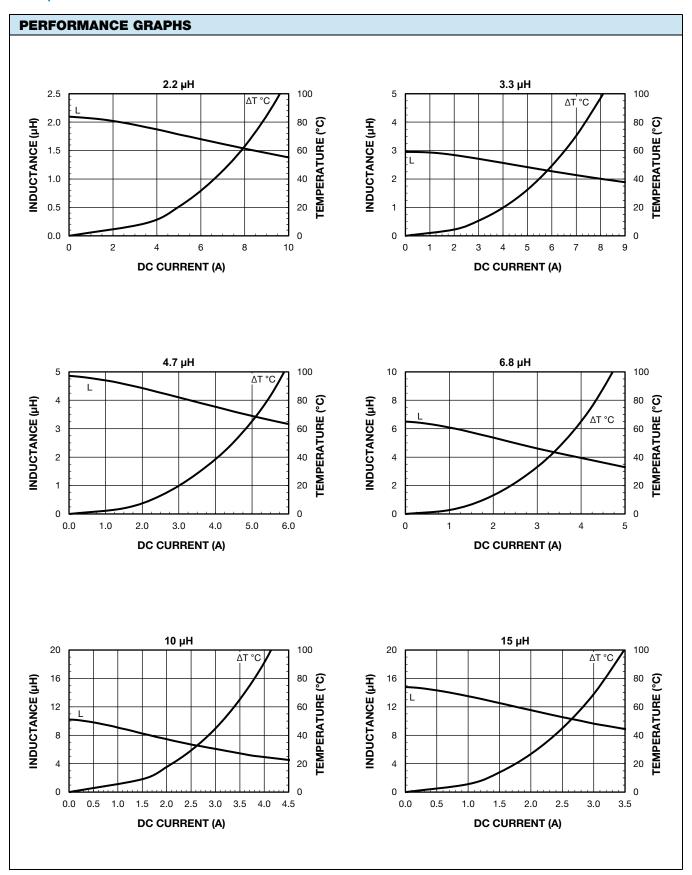
Note

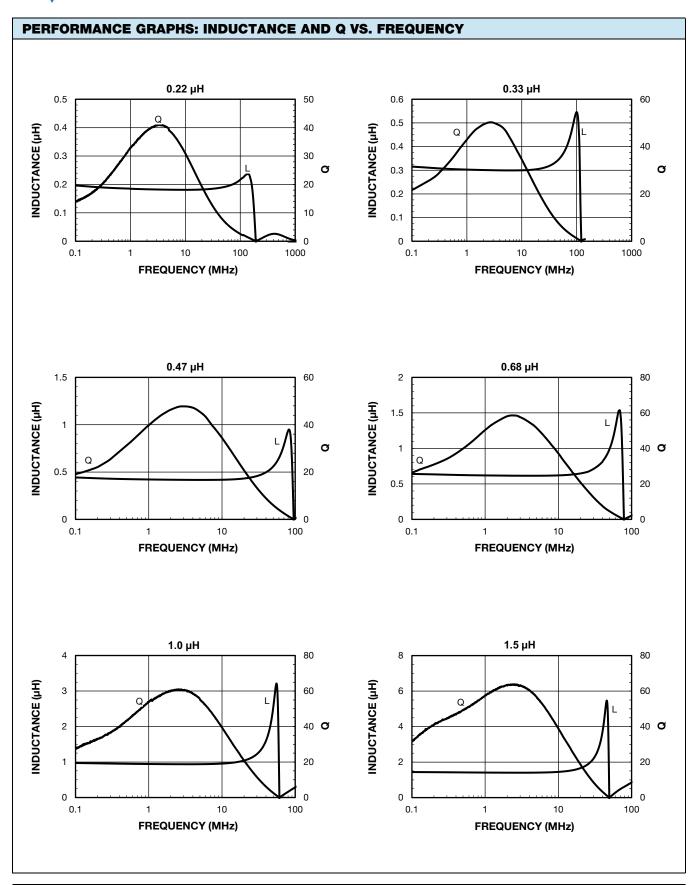
(1) All 1P product is intended to be used for design validation testing only

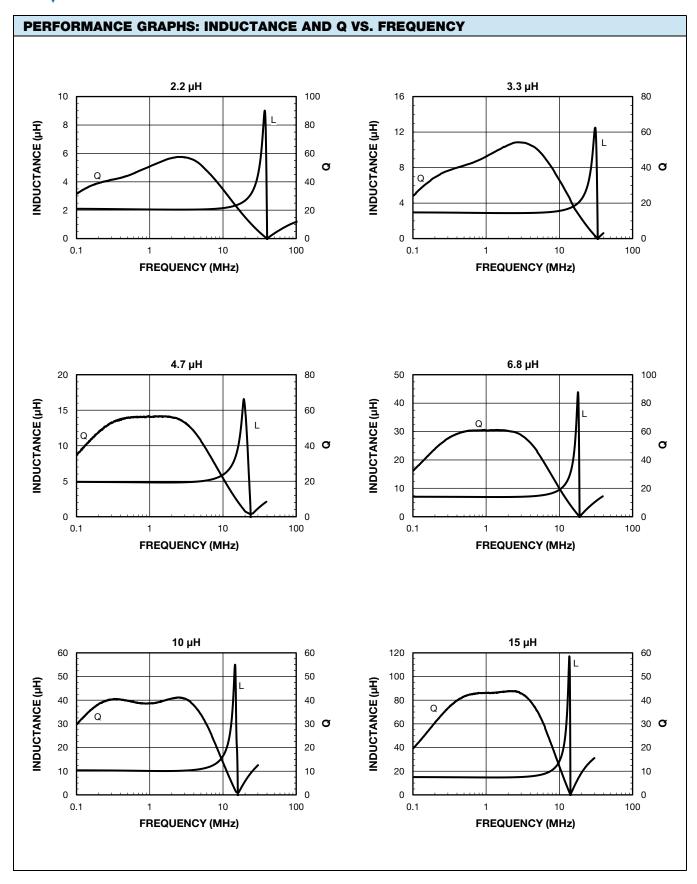
PATENT(S): www.vishay.com/patents

This Vishay product is protected by one or more United States and international patents.











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Vishay

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