

## Filter Inductors High Current



### ELECTRICAL SPECIFICATIONS

**Inductance:** Measured at 1.0 V with zero DC current

**Incremental Current:** The typical current at which the inductance will be decreased by 5 % from its initial zero DC value

**Operating Temperature:** - 55 °C to + 125 °C (no load)  
- 55 °C to + 75 °C (at full rated current)

STANDARD ELECTRICAL SPECIFICATIONS					
MODEL	IND. at 1 kHz (μH)	TOL.	DCR MAX. (Ohms)	RATED CURRENT (Max. Amps)	INCREMENTAL CURRENT (Amps)
IH-3	5	± 10 %	0.015	10.0	25
IH-3	10	± 10 %	0.018	9.0	19
IH-3	27	± 10 %	0.035	7.0	12
IH-3	50	± 10 %	0.050	5.6	8
IH-3	100	± 10 %	0.065	5.2	6
IH-3	150	± 10 %	0.075	5.0	5
IH-3	250	± 10 %	0.090	5.0	4
IH-5	5	± 10 %	0.012	14.0	25
IH-5	10	± 10 %	0.015	12.0	19
IH-5	27	± 10 %	0.025	9.0	13
IH-5	50	± 10 %	0.030	8.0	10
IH-5	68	± 10 %	0.035	7.5	9
IH-5	100	± 10 %	0.050	7.5	7
IH-5	150	± 10 %	0.060	7.0	5
IH-10	5	± 10 %	0.010	19.0	25
IH-10	10	± 10 %	0.012	16.0	19
IH-10	27	± 10 %	0.018	12.5	12
IH-10	50	± 10 %	0.025	11.0	10
IH-10	68	± 10 %	0.027	10.0	8
IH-10	100	± 10 %	0.030	10.0	7
IH-15	5	± 10 %	0.008	24.0	25
IH-15	10	± 10 %	0.010	20.0	19
IH-15	27	± 10 %	0.015	16.0	14
IH-15	50	± 10 %	0.020	15.0	10

### MARKING

- Vishay Dale
- Model
- Inductance value
- Date code

### ORDERING INFORMATION

MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD
IH-5	10 μH	± 10 %	EB	e2

### GLOBAL PART NUMBER INFORMATION

I	H	0	5	E	B	1	0	0	K
MODEL				PACKING CODE		INDUCTANCE VALUE			TOL.

### FEATURES

- Printed circuit mounting
- Pre-tinned leads
- Protected by polyolefin tubing - flame retardant UL type VW-1 per MIL-I-23053/5, Class 3 requirements


**RoHS**  
COMPLIANT

### APPLICATIONS

Noise filtering for switching regulators, power amplifiers, power supplies and SCR and Triac control circuits

Current Rating: Maximum continuous operating current (DC or RMS) based on a 50 °C temperature rise

### MECHANICAL SPECIFICATIONS

**Wire:** Solid soft copper

**Terminals:** Extensions of the winding

**Core Material:** Ferrite

**Coating:** Polyolefin tubing

DIMENSIONS in inches [millimeters]					
MODEL	IND. (μH)	A (Max.)	B (Max.)	C ± 0.062 [1.57]	D ± 0.005 [0.127]
IH-3	5	0.875 [22.23]	0.600 [15.24]	0.500 [12.70]	0.042 [1.067]
IH-3	10	1.125 [28.58]	0.625 [15.88]	0.687 [17.45]	0.042 [1.067]
IH-3	27	0.875 [22.23]	0.800 [20.32]	0.437 [11.10]	0.042 [1.067]
IH-3	50	0.875 [22.23]	0.800 [20.32]	0.750 [19.05]	0.042 [1.067]
IH-3	100	1.125 [28.58]	0.800 [20.32]	0.937 [23.80]	0.042 [1.067]
IH-3	150	1.375 [34.93]	0.800 [20.32]	1.062 [26.97]	0.042 [1.067]
IH-3	250	1.625 [41.28]	0.800 [20.32]	1.312 [33.32]	0.042 [1.067]
IH-5	5	0.875 [22.23]	0.625 [15.88]	0.750 [19.05]	0.053 [1.35]
IH-5	10	1.125 [28.58]	0.625 [15.88]	1.000 [25.40]	0.053 [1.35]
IH-5	27	0.875 [22.23]	0.840 [21.34]	0.562 [14.27]	0.053 [1.35]
IH-5	50	1.125 [28.58]	0.840 [21.34]	0.750 [19.05]	0.053 [1.35]
IH-5	68	1.125 [28.58]	0.860 [21.84]	0.875 [22.23]	0.053 [1.35]
IH-5	100	1.375 [34.93]	0.860 [21.84]	1.000 [25.40]	0.053 [1.35]
IH-5	150	1.625 [41.28]	0.860 [21.84]	1.250 [31.75]	0.053 [1.35]
IH-10	5	1.125 [28.58]	0.635 [16.13]	0.812 [20.62]	0.065 [1.65]
IH-10	10	1.375 [34.93]	0.635 [16.13]	1.218 [30.94]	0.065 [1.65]
IH-10	27	1.125 [28.58]	0.935 [23.75]	0.687 [17.45]	0.065 [1.65]
IH-10	50	1.375 [34.93]	0.935 [23.75]	0.937 [23.80]	0.065 [1.65]
IH-10	68	1.375 [34.93]	0.935 [23.75]	1.125 [28.58]	0.065 [1.65]
IH-10	100	1.625 [41.28]	0.935 [23.75]	1.312 [33.32]	0.065 [1.65]
IH-15	5	1.375 [34.93]	0.700 [17.78]	0.937 [23.80]	0.082 [2.08]
IH-15	10	1.687 [42.85]	0.700 [17.78]	1.500 [38.10]	0.082 [2.08]
IH-15	27	1.375 [34.93]	1.000 [25.40]	0.937 [23.80]	0.082 [2.08]
IH-15	50	1.625 [41.28]	1.000 [25.40]	1.125 [28.58]	0.082 [2.08]



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