### Vishay Dale



Filter Inductors, High Current, Radial Leaded



#### **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)

#### **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
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

#### 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]									
I.0 ± 0.125 [25.40 ± 3.18]     D       Leads tinned to within 0.125 [3.18]     Schematic									
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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IH



Vishay Dale

IH

STANDARD ELECTRICAL SPECIFICATIONS							
MODEL	IND. AT 1 kHz (µH)	TOL. (%)	DCR MAX. (Ω)	RATED DC CURRENT (mA)	INCREMENTAL CURRENT (mA)		
IH-3	5	± 10	0.015	10 000	25 000		
IH-3	10	± 10	0.018	9000	19 000		
IH-3	27	± 10	0.035	7000	12 000		
IH-3	50	± 10	0.050	5600	8000		
IH-3	100	± 10	0.065	5200	6000		
IH-3	150	± 10	0.075	5000	5000		
IH-3	250	± 10	0.090	5000	4000		
IH-5	5	± 10	0.012	14 000	25 000		
IH-5	10	± 10	0.015	12 000	19 000		
IH-5	27	± 10	0.025	9000	13 000		
IH-5	50	± 10	0.030	8000	10 000		
IH-5	68	± 10	0.035	7500	9000		
IH-5	100	± 10	0.050	7500	7000		
IH-5	150	± 10	0.060	7000	5000		
IH-10	5	± 10	0.010	19 000	25 000		
IH-10	10	± 10	0.012	16 000	19 000		
IH-10	27	± 10	0.018	12 500	12 000		
IH-10	50	± 10	0.025	11 000	10 000		
IH-10	68	± 10	0.027	10 000	8000		
IH-10	100	± 10	0.030	10 000	7000		
IH-15	5	± 10	0.008	24 000	25 000		
IH-15	10	± 10	0.010	20 000	19 000		
IH-15	27	± 10	0.015	16 000	14 000		
IH-15	50	± 10	0.020	15 000	10 000		

#### MARKING

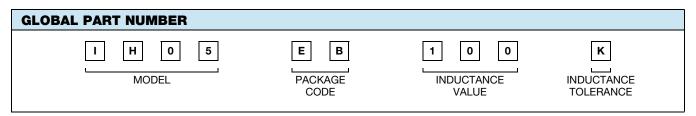
- Vishay Dale

- Model

- Inductance value

- Date code

ORDERING INFORMATION									
IH-5	10 µH	± 10 %	EB	e2					
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC <sup>®</sup> LEAD (Pb)-FREE STANDARD					



2



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