

# Filter Inductors, High Current, Axial Leaded



### **FEATURES**

• Printed circuit mounting (axial leads)



Low cost construction

 Protected by polyolefin tubing - flame retardant UL type VW-1 per MIL-I-23053/8, class 3 requirements

Compliant to RoHS Directive 2002/95/EC

# Pb-free

RoHS COMPLIANT

### **ELECTRICAL SPECIFICATIONS**

Inductance: Measured at 1.0 V with zero DC current

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

**Dielectric Rating:** 2500 V<sub>RMS</sub>, 60 Hz, applied for one minute between winding and outer circumference to within 0.250"

[6.35 mm] of the insulation sleeve edge

Operating Temperature: - 55 °C to + 125 °C (no load),

- 55 °C to + 75 °C (at full rated current)

### **APPLICATIONS**

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

### **MECHANICAL SPECIFICATIONS**

Winding: Layered solenoid type

Wire: Solid soft copper

**Terminals:** Tinned copper leads **Encapsulant:** Polyolefin tubing

Core Material: Ferrite

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DIMENSIONS in inches [millimeters]					
	0.125 [3.18] C Typ.  Min. Typ.  A Max.  Schematic				
MODEL	A (MAX.)	B (MAX.)	C ± 0.002 [0.050]		
IHA-101	0.475 [12.07]	0.800 [20.32]	0.032 [0.813]		
IHA-102	0.475 [12.07]	0.800 [20.32]	0.032 [0.813]		
IHA-103	0.475 [12.07]	1.050 [26.67]	0.032 [0.813]		
IHA-104	0.550 [13.97]	1.050 [26.67]	0.032 [0.813]		
IHA-105	0.550 [13.97]	1.175 [29.85]	0.032 [0.813]		
IHA-201	0.500 [12.70]	0.800 [20.32]	0.032 [0.813]		
IHA-202	0.500 [12.70]	0.800 [20.32]	0.032 [0.813]		
IHA-203	0.500 [12.70]	0.920 [23.37]	0.032 [0.813]		
IHA-204	0.600 [15.24]	0.920 [23.37]	0.032 [0.813]		
IHA-205	0.750 [19.05]	1.050 [26.67]	0.032 [0.813]		
IHA-301	0.475 [12.07]	0.800 [20.32]	0.032 [0.813]		
IHA-302	0.475 [12.07]	0.920 [23.37]	0.032 [0.813]		
IHA-303	0.550 [13.97]	0.800 [20.32]	0.032 [0.813]		
IHA-304	0.550 [13.97]	0.920 [23.37]	0.032 [0.813]		
IHA-305	0.550 [13.97]	1.175 [29.85]	0.032 [0.813]		
IHA-501	0.475 [12.07]	1.050 [26.67]	0.040 [1.02]		
IHA-502	0.475 [12.07]	1.050 [26.67]	0.040 [1.02]		
IHA-503	0.700 [17.78]	1.050 [26.67]	0.040 [1.02]		
IHA-504	0.700 [17.78]	1.050 [26.67]	0.040 [1.02]		
IHA-505	0.700 [17.78]	1.300 [33.02]	0.040 [1.02]		

STANDARD ELECTRICAL SPECIFICATIONS				
MODEL	IND. AT 1 kHz (µH)	TOL. (%)	DCR MAX. (Ω)	RATED DC CURRENT (mA)
IHA-101	50	± 10 %	0.120	2500
IHA-102	100	± 10 %	0.160	2100
IHA-103	250	± 10 %	0.280	1800
IHA-104	500	± 10 %	0.420	1600
IHA-105	1000	± 10 %	0.600	1400

Document Number: 34014 Revision: 04-Feb-11 For technical questions, contact: magnetics@vishay.com

# Vishay Dale

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STANDARD ELECTRICAL SPECIFICATIONS					
MODEL	IND. AT 1 kHz (µH)	TOL. (%)	DCR MAX. (Ω)	RATED DC CURRENT (mA)	
IHA-201	27	± 10 %	0.060	3700	
IHA-202	50	± 10 %	0.085	3100	
IHA-203	100	± 10 %	0.120	2700	
IHA-204	250	± 10 %	0.200	2400	
IHA-205	500	± 10 %	0.320	2300	
IHA-301	5	± 10 %	0.015	6800	
IHA-302	10	± 10 %	0.021	6100	
IHA-303	27	± 10 %	0.040	4800	
IHA-304	50	± 10 %	0.050	4300	
IHA-305	100	± 10 %	0.070	4200	
IHA-501	5	± 10 %	0.010	9300	
IHA-502	10	± 10 %	0.015	8300	
IHA-503	27	± 10 %	0.030	6500	
IHA-504	50	± 10 %	0.040	6100	
IHA-505	100	± 10 %	0.060	5900	

## **MARKING**

- Vishay Dale
- Model
- Date code

ORDERING INFORMATION						
IHA-101	50 μH	± 10 %	EB	e2		
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD		

GLOBAL PART NUMBER				
I H A 1 0 1  MODEL	PACKAGE CODE	0 5 0 INDUCTANCE VALUE	INDUCTANCE TOLERANCE	

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Document Number: 91000 www.vishay.com
Revision: 11-Mar-11 1