

Filter Inductors, High Current, Axial Leaded



FEATURES

- Printed circuit mounting (axial leads)
- Pre-tinned leads
- Low cost construction
- Protected by polyolefin tubing - flame retardant UL type VW-1 per MIL-I-23053/8, class 3 requirements
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912


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_{RMS}, 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

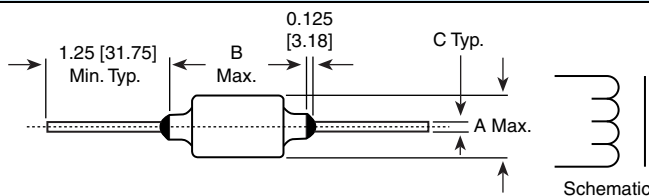
Wire: Solid soft copper

Terminals: Tinned copper leads

Encapsulant: Polyolefin tubing

Core Material: Ferrite

DIMENSIONS in inches [millimeters]



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

**STANDARD ELECTRICAL SPECIFICATIONS**

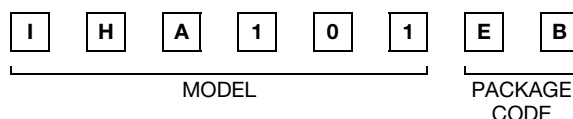
MODEL	IND. AT 1 kHz (μ H)	TOL. (%)	DCR MAX. (Ω)	RATED DC CURRENT (mA)
IHA-201	27	$\pm 10\%$	0.060	3700
IHA-202	50	$\pm 10\%$	0.085	3100
IHA-203	100	$\pm 10\%$	0.120	2700
IHA-204	250	$\pm 10\%$	0.200	2400
IHA-205	500	$\pm 10\%$	0.320	2300
IHA-301	5	$\pm 10\%$	0.015	6800
IHA-302	10	$\pm 10\%$	0.021	6100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

MARKING

- Vishay Dale
- Model
- Date code

ORDERING INFORMATION

IHA-101	50 μH	$\pm 10\%$	EB	e2
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER



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IHA503BA	IHA103BA	IHA205BA	IHA203BA	IHA102BA	IHA105BA	IHA304BA	IHA202BA	IHA302BA	IHA301BA
IHA502BA	IHA505BA	IHA102EB	IHA101EB	IHA103EB	IHA104EB	IHA105EB	IHA202EB	IHA203EB	IHA204EB
IHA303EB	IHA305EB	IHA502EB	IHA503EB	IHA505EB	IHA303BA	IHA101BA	IHA201BA	IHA104BA	IHA501BA
IHA504BA	IHA204BA	IHA305BA	IHA201EB	IHA301EB	IHA302EB	IHA304EB	IHA501EB	IHA504EB	IHA205EB