

IHA101BA Datasheet

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| | |
|------------------------------|--|
| DiGi Electronics Part Number | IHA101BA-DG |
| Manufacturer | Vishay Dale |
| Manufacturer Product Number | IHA101BA |
| Description | FIXED IND 50UH 2.5A 120 MOHM TH |
| Detailed Description | 50 μ H Unshielded Drum Core, Wirewound Inductor 2.5 A 120mOhm Max Axial |



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Purchase and inquiry

Manufacturer Product Number:

IHA101BA

Series:

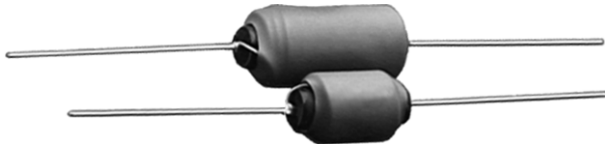
IHA

Manufacturer:

Vishay Dale



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

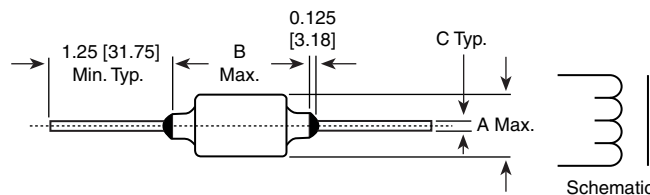
Wire: solid soft copper

Terminals: tinned copper leads

Encapsulant: polyolefin tubing

Core Material: ferrite

DIMENSIONS in inches [millimeters]



| PART NUMBER | A (MAX.) | B (MAX.) | C ± 0.002 [0.050] |
|-------------|---------------|---------------|-------------------|
| IHA101EB | 0.475 [12.07] | 0.800 [20.32] | 0.032 [0.813] |
| IHA102EB | 0.475 [12.07] | 0.800 [20.32] | 0.032 [0.813] |
| IHA103EB | 0.475 [12.07] | 1.050 [26.67] | 0.032 [0.813] |
| IHA104EB | 0.550 [13.97] | 1.050 [26.67] | 0.032 [0.813] |
| IHA105EB | 0.550 [13.97] | 1.175 [29.85] | 0.032 [0.813] |
| IHA201EB | 0.500 [12.70] | 0.800 [20.32] | 0.032 [0.813] |
| IHA202EB | 0.500 [12.70] | 0.800 [20.32] | 0.032 [0.813] |
| IHA203EB | 0.500 [12.70] | 0.920 [23.37] | 0.032 [0.813] |
| IHA204EB | 0.600 [15.24] | 0.920 [23.37] | 0.032 [0.813] |
| IHA205EB | 0.750 [19.05] | 1.050 [26.67] | 0.032 [0.813] |
| IHA301EB | 0.475 [12.07] | 0.800 [20.32] | 0.032 [0.813] |
| IHA302EB | 0.475 [12.07] | 0.920 [23.37] | 0.032 [0.813] |
| IHA303EB | 0.550 [13.97] | 0.800 [20.32] | 0.032 [0.813] |
| IHA304EB | 0.550 [13.97] | 0.920 [23.37] | 0.032 [0.813] |
| IHA305EB | 0.550 [13.97] | 1.175 [29.85] | 0.032 [0.813] |
| IHA501EB | 0.475 [12.07] | 1.050 [26.67] | 0.040 [1.02] |
| IHA502EB | 0.475 [12.07] | 1.050 [26.67] | 0.040 [1.02] |
| IHA503EB | 0.700 [17.78] | 1.050 [26.67] | 0.040 [1.02] |
| IHA504EB | 0.700 [17.78] | 1.050 [26.67] | 0.040 [1.02] |
| IHA505EB | 0.700 [17.78] | 1.300 [33.02] | 0.040 [1.02] |



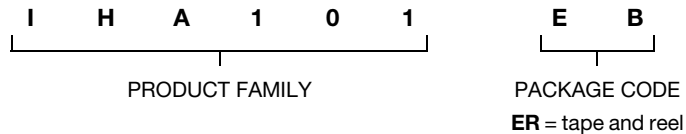
| STANDARD ELECTRICAL SPECIFICATIONS | | | | |
|---|--|-----------------|---------------------------------------|------------------------------|
| PART NUMBER | IND. AT 1 kHz (μH) | TOL. (%) | DCR MAX. (Ω) | RATED DC CURRENT (mA) |
| IHA101EB | 50 | $\pm 10\%$ | 0.120 | 2500 |
| IHA102EB | 100 | $\pm 10\%$ | 0.160 | 2100 |
| IHA103EB | 250 | $\pm 10\%$ | 0.280 | 1800 |
| IHA104EB | 500 | $\pm 10\%$ | 0.420 | 1600 |
| IHA105EB | 1000 | $\pm 10\%$ | 0.600 | 1400 |
| IHA201EB | 27 | $\pm 10\%$ | 0.060 | 3700 |
| IHA202EB | 50 | $\pm 10\%$ | 0.085 | 3100 |
| IHA203EB | 100 | $\pm 10\%$ | 0.120 | 2700 |
| IHA204EB | 250 | $\pm 10\%$ | 0.200 | 2400 |
| IHA205EB | 500 | $\pm 10\%$ | 0.320 | 2300 |
| IHA301EB | 5 | $\pm 10\%$ | 0.015 | 6800 |
| IHA302EB | 10 | $\pm 10\%$ | 0.021 | 6100 |
| IHA303EB | 27 | $\pm 10\%$ | 0.040 | 4800 |
| IHA304EB | 50 | $\pm 10\%$ | 0.050 | 4300 |
| IHA305EB | 100 | $\pm 10\%$ | 0.070 | 4200 |
| IHA501EB | 5 | $\pm 10\%$ | 0.010 | 9300 |
| IHA502EB | 10 | $\pm 10\%$ | 0.015 | 8300 |
| IHA503EB | 27 | $\pm 10\%$ | 0.030 | 6500 |
| IHA504EB | 50 | $\pm 10\%$ | 0.040 | 6100 |
| IHA505EB | 100 | $\pm 10\%$ | 0.060 | 5900 |

MARKING

- Vishay Dale
- Model
- Date code

ORDERING INFORMATION

| | | | | |
|---------------|-----------------------------|------------------------------|--------------|-------------------------------|
| IHA101 | 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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