

# Filter Inductors, High Current, Radial Leaded



## 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 [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)


**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

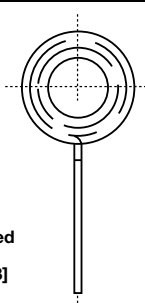
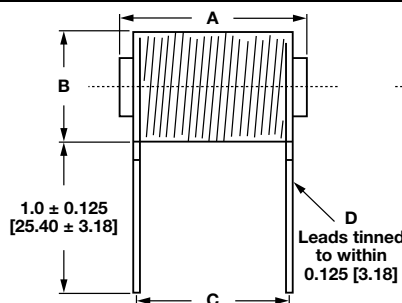
## ELECTRICAL SPECIFICATIONS

**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)

## DIMENSIONS in inches [millimeters]



PART NUMBER	IND. (μH)	A (MAX.)	B (MAX.)	C ± 0.062 [± 1.57]	D ± 0.005 [± 0.127]
IH03EB5R0K	5	0.875 [22.23]	0.600 [15.24]	0.500 [12.70]	0.042 [1.067]
IH03EB100K	10	1.125 [28.58]	0.625 [15.88]	0.687 [17.45]	0.042 [1.067]
IH03EB270K	27	0.875 [22.23]	0.800 [20.32]	0.437 [11.10]	0.042 [1.067]
IH03EB500K	50	0.875 [22.23]	0.800 [20.32]	0.750 [19.05]	0.042 [1.067]
IH03EB101K	100	1.125 [28.58]	0.800 [20.32]	0.937 [23.80]	0.042 [1.067]
IH03EB151K	150	1.375 [34.93]	0.800 [20.32]	1.062 [26.97]	0.042 [1.067]
IH03EB251K	250	1.625 [41.28]	0.800 [20.32]	1.312 [33.32]	0.042 [1.067]
IH05EB5R0K	5	0.875 [22.23]	0.625 [15.88]	0.750 [19.05]	0.053 [1.35]
IH05EB100K	10	1.125 [28.58]	0.625 [15.88]	1.000 [25.40]	0.053 [1.35]
IH05EB270K	27	0.875 [22.23]	0.840 [21.34]	0.562 [14.27]	0.053 [1.35]
IH05EB500K	50	1.125 [28.58]	0.840 [21.34]	0.750 [19.05]	0.053 [1.35]
IH05EB680K	68	1.125 [28.58]	0.860 [21.84]	0.875 [22.23]	0.053 [1.35]
IH05EB101K	100	1.375 [34.93]	0.860 [21.84]	1.000 [25.40]	0.053 [1.35]
IH05EB151K	150	1.625 [41.28]	0.860 [21.84]	1.250 [31.75]	0.053 [1.35]
IH10EB5R0K	5	1.125 [28.58]	0.635 [16.13]	0.812 [20.62]	0.065 [1.65]
IH10EB100K	10	1.375 [34.93]	0.635 [16.13]	1.218 [30.94]	0.065 [1.65]
IH10EB270K	27	1.125 [28.58]	0.935 [23.75]	0.687 [17.45]	0.065 [1.65]
IH10EB500K	50	1.375 [34.93]	0.935 [23.75]	0.937 [23.80]	0.065 [1.65]
IH10EB680K	68	1.375 [34.93]	0.935 [23.75]	1.125 [28.58]	0.065 [1.65]
IH10EB101K	100	1.625 [41.28]	0.935 [23.75]	1.312 [33.32]	0.065 [1.65]
IH15EB5R0K	5	1.375 [34.93]	0.700 [17.78]	0.937 [23.80]	0.082 [2.08]
IH15EB100K	10	1.687 [42.85]	0.700 [17.78]	1.500 [38.10]	0.082 [2.08]
IH15EB270K	27	1.375 [34.93]	1.000 [25.40]	0.937 [23.80]	0.082 [2.08]
IH15EB500K	50	1.625 [41.28]	1.000 [25.40]	1.125 [28.58]	0.082 [2.08]

**STANDARD ELECTRICAL SPECIFICATIONS**

PART NUMBER	IND. AT 1 kHz ( $\mu$ H)	TOL. (%)	DCR MAX. ( $\Omega$ )	RATED DC CURRENT (mA)	INCREMENTAL CURRENT (mA)
IH03EB5R0K	5	$\pm 10$	0.015	10 000	25 000
IH03EB100K	10	$\pm 10$	0.018	9000	19 000
IH03EB270K	27	$\pm 10$	0.035	7000	12 000
IH03EB500K	50	$\pm 10$	0.050	5600	8000
IH03EB101K	100	$\pm 10$	0.065	5200	6000
IH03EB151K	150	$\pm 10$	0.075	5000	5000
IH03EB251K	250	$\pm 10$	0.090	5000	4000
IH05EB5R0K	5	$\pm 10$	0.012	14 000	25 000
IH05EB100K	10	$\pm 10$	0.015	12 000	19 000
IH05EB270K	27	$\pm 10$	0.025	9000	13 000
IH05EB500K	50	$\pm 10$	0.030	8000	10 000
IH05EB680K	68	$\pm 10$	0.035	7500	9000
IH05EB101K	100	$\pm 10$	0.050	7500	7000
IH05EB151K	150	$\pm 10$	0.060	7000	5000
IH10EB5R0K	5	$\pm 10$	0.010	19 000	25 000
IH10EB100K	10	$\pm 10$	0.012	16 000	19 000
IH10EB270K	27	$\pm 10$	0.018	12 500	12 000
IH10EB500K	50	$\pm 10$	0.025	11 000	10 000
IH10EB680K	68	$\pm 10$	0.027	10 000	8000
IH10EB101K	100	$\pm 10$	0.030	10 000	7000
IH15EB5R0K	5	$\pm 10$	0.008	24 000	25 000
IH15EB100K	10	$\pm 10$	0.010	20 000	19 000
IH15EB270K	27	$\pm 10$	0.015	16 000	14 000
IH15EB500K	50	$\pm 10$	0.020	15 000	10 000

**MARKING**

- Vishay Dale
- Model
- Inductance value
- Date code

**ORDERING INFORMATION**

IH-5	10 $\mu$ H	$\pm 10$ %	EB	e2
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

**GLOBAL PART NUMBER**

<div>I</div> <div>H</div> <div>0</div> <div>5</div>	<div>E</div> <div>B</div>	<div>1</div> <div>0</div> <div>0</div>	<div>K</div>
MODEL	PACKAGE CODE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE



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