

Filter Inductors, High Current, Radial Leded



ELECTRICAL SPECIFICATIONS

Inductance: Measured at 1.0 V with no DC current

Incremental Current: 2500 V_{RMS} 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)

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
- Compliant to RoHS Directive 2002/95/EC



RoHS
COMPLIANT

MECHANICAL SPECIFICATIONS

Terminals: Extensions of the winding, solder coated

Core Material: Iron laminations

Encapsulant: Polyolefin tubing

| DIMENSIONS in inches [millimeters] | | | | | | | |
|------------------------------------|-------|--------------|--------------------|--------------------|--------------------|--------------|--------------------|
| Style 1 | | | | Style 2 | | | |
| | | | | | | | |
| MODEL | STYLE | A (MAX.) | B ± 0.050 [± 1.27] | C ± 0.062 [± 1.57] | D ± 0.062 [± 1.57] | E (DIA.) | TYPICAL WEIGHT (g) |
| IHV-15-500 | 1 | 2.45 [62.23] | 1.45 [36.83] | 0.980 [24.89] | 1.95 [49.53] | 0.082 [2.08] | 305 |
| IHV-20-200 | 2 | 2.45 [62.23] | 1.45 [36.83] | 0.980 [24.89] | - | 0.102 [2.59] | 310 |
| IHV-28-60 | 2 | 2.45 [62.23] | 1.02 [25.91] | 0.770 [19.56] | - | 0.102 [2.59] | 160 |
| IHV-30-150 | 2 | 2.45 [62.23] | 1.65 [41.91] | 1.080 [27.43] | - | 0.129 [3.28] | 470 |
| IHV-40-39 | 2 | 2.45 [62.23] | 1.15 [29.21] | 0.820 [20.83] | - | 0.129 [3.28] | 210 |
| IHV-45-92 | 2 | 2.55 [64.77] | 1.92 [48.77] | 1.210 [30.73] | - | 0.162 [4.11] | 650 |
| IHV-50-50 | 1 | 2.55 [64.77] | 1.57 [39.88] | 1.050 [26.67] | 2.10 [53.34] | 0.162 [4.11] | 420 |
| IHV-60-24 | 2 | 2.45 [62.23] | 1.27 [32.26] | 0.890 [22.61] | - | 0.162 [4.11] | 270 |

| STANDARD ELECTRICAL SPECIFICATIONS | | | | | |
|------------------------------------|-----------------------------------|----------|----------------|--------------|-----------------------|
| MODEL | IND. AT 1 kHz (μH) ⁽¹⁾ | TOL. (%) | SRF MIN. (MHz) | DCR MAX. (Ω) | RATED DC CURRENT (mA) |
| IHV-15-500 | 500 | ± 10 | 0.8 | 0.0500 | 15 000 |
| IHV-20-200 | 200 | ± 10 | 1.2 | 0.0210 | 20 000 |
| IHV-28-60 | 60 | ± 10 | 1.9 | 0.0085 | 28 000 |
| IHV-30-150 | 150 | ± 10 | 2.1 | 0.0130 | 30 000 |
| IHV-40-39 | 39 | ± 10 | 2.5 | 0.0048 | 40 000 |
| IHV-45-92 | 92 | ± 10 | 2.9 | 0.0075 | 45 000 |
| IHV-50-50 | 50 | ± 10 | 3.1 | 0.0045 | 50 000 |
| IHV-60-24 | 24 | ± 10 | 5.7 | 0.0025 | 60 000 |

Note

⁽¹⁾ Will not change more than ± 10 % at rated current



MARKING

- Vishay Dale
- Model
- Date code

ORDERING INFORMATION

| | | | | |
|--------|------------------|----------------------|--------------|-------------------------------|
| IHV-15 | 500 μ H | $\pm 10 \%$ | EB | e2 |
| MODEL | INDUCTANCE VALUE | INDUCTANCE TOLERANCE | PACKAGE CODE | JEDEC LEAD (Pb)-FREE STANDARD |

GLOBAL PART NUMBER



Note

- See the end of this data book for conversion tables



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