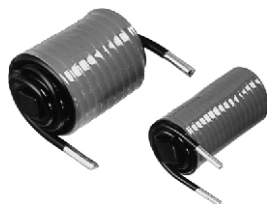


# Filter Inductors, High Current, Radial Leaded



## 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

## ELECTRICAL SPECIFICATIONS

**Inductance:** measured at 1.0 V with no DC current

**Incremental current:** 2500 V<sub>RMS</sub> 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)

**Maximum usable frequency:** 20 kHz

## MECHANICAL SPECIFICATIONS

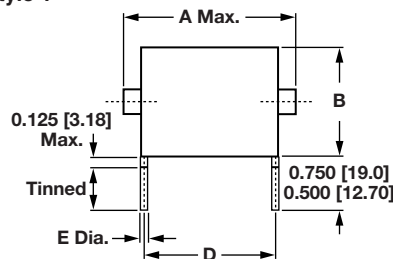
**Terminals:** extensions of the winding, solder coated

**Core material:** iron laminations

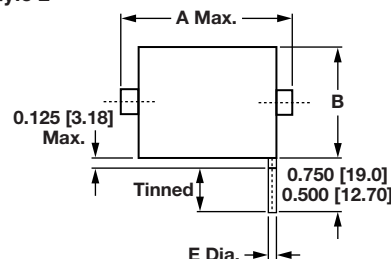
**Encapsulant:** polyolefin tubing

## 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) <sup>(1)</sup> | 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

<sup>(1)</sup> Will not change more than ± 10 % at rated current



### MARKING

- Vishay Dale
- Model
- Date code

### ORDERING INFORMATION

|               |                              |                               |              |                               |
|---------------|------------------------------|-------------------------------|--------------|-------------------------------|
| <b>IHV-15</b> | <b>500 <math>\mu</math>H</b> | <b><math>\pm 10 \%</math></b> | <b>EB</b>    | <b>e2</b>                     |
| MODEL         | INDUCTANCE VALUE             | INDUCTANCE TOLERANCE          | PACKAGE CODE | JEDEC LEAD (Pb)-FREE STANDARD |

### GLOBAL PART NUMBER

|                                                                  |                           |                                        |
|------------------------------------------------------------------|---------------------------|----------------------------------------|
| <div>I</div> <div>H</div> <div>V</div> <div>1</div> <div>5</div> | <div>E</div> <div>B</div> | <div>5</div> <div>0</div> <div>0</div> |
| MODEL                                                            | PACKAGE CODE              | INDUCTANCE VALUE                       |

#### Note

- See the end of this data book for conversion tables



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