

# 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]							
<b>Style 1</b> 				<b>Style 2</b> 			
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
<ul style="list-style-type: none"> <li>- Vishay Dale</li> <li>- Model</li> <li>- Date code</li> </ul>

ORDERING INFORMATION										
<table> <tr> <td>IHV-15</td> <td>500 <math>\mu</math>H</td> <td><math>\pm 10\%</math></td> <td>EB</td> <td>e2</td> </tr> <tr> <td>MODEL</td> <td>INDUCTANCE VALUE</td> <td>INDUCTANCE TOLERANCE</td> <td>PACKAGE CODE</td> <td>JEDEC LEAD (Pb)-FREE STANDARD</td> </tr> </table>	IHV-15	500 $\mu$ H	$\pm 10\%$	EB	e2	MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD
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**Note**

- See the end of this data book for conversion tables



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