

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


RoHS
COMPLIANT

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)

Maximum usable frequency: 20 kHz

MECHANICAL SPECIFICATIONS

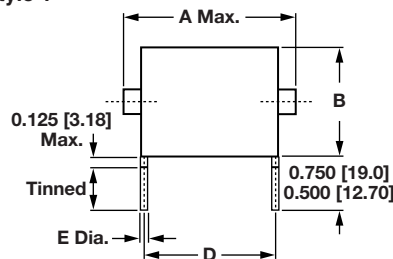
Terminals: extensions of the winding, solder coated

Core material: iron laminations

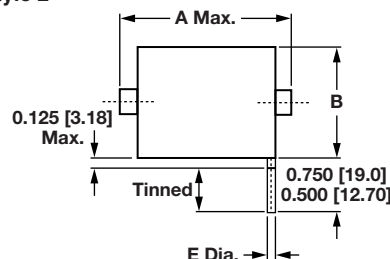
Encapsulant: polyolefin tubing

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) ⁽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 μH	$\pm 10 \%$	EB	e2
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

<div>I</div> <div>H</div> <div>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



Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Hyperlinks included in this datasheet may direct users to third-party websites. These links are provided as a convenience and for informational purposes only. Inclusion of these hyperlinks does not constitute an endorsement or an approval by Vishay of any of the products, services or opinions of the corporation, organization or individual associated with the third-party website. Vishay disclaims any and all liability and bears no responsibility for the accuracy, legality or content of the third-party website or for that of subsequent links.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.