

IHV45EB92 Datasheet



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DiGi Electronics Part Number	IHV45EB92-DG
Manufacturer	Vishay Dale
Manufacturer Product Number	IHV45EB92
Description	FIXED IND 92UH 45A 7.5 MOHM TH
Detailed Description	92 μ H Unshielded Inductor 45 A 7.5mOhm Max Radial, Horizontal Cylinder

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Purchase and inquiry

Manufacturer Product Number:

IHV45EB92

Series:

IHV

Manufacturer:

Vishay Dale



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

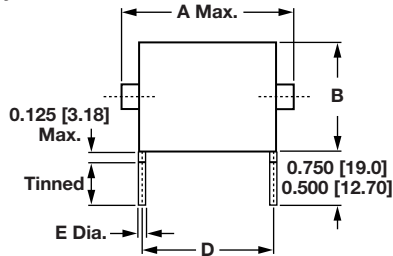
Terminals: extensions of the winding, solder coated

Core material: iron laminations

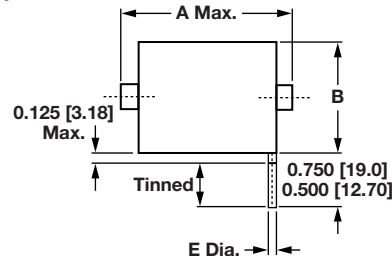
Encapsulant: polyolefin tubing

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 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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